

<110> Rosen et al.

<120> 64 Human Secreted Proteins

<130> PZ011

<140> Unassigned

<141> 2001-02-06

<150> 60/180,909

<151> 2000-02-08

<150> 09/669,688

<151> 2000-09-26

<150> 09/229,982

<151> 1999-01-14

<150> 1998-07-15

<151> PCT/US98/14613

<150> 1997-07-16

<151> 60/052,661

<150> 1997-07-16

<151> 60/052,872

<150> 1997-07-16

<151> 60/052,871

<150> 1997-07-16

<151> 60/052,874

<150> 1997-07-16

<151> 60/052,873

<150> 1997-07-16

<151> 60/052,870

<150> 1997-07-16

<151> 60/052,875

<150> 1997-07-22

<151> 60/053,440

<150> 1997-07-22

<151> 60/053,441

<150> 1997-07-22

<151> 60/053,442

<150> 1997-08-18

<151> 60/056,359

<150> 1997-08-18

<151> 60/055,725

<150> 1997-08-18

<151> 60/055,985

<150> 1997-08-18
 <151> 60/055,952

<150> 1997-08-18
 <151> 60/055,989

<150> 1997-08-18
 <151> 60/056,361

<150> 1997-08-18
 <151> 60/055,726

<150> 1997-08-18
 <151> 60/055,724

<150> 1997-08-18
 <151> 60/055,946

<150> 1997-08-18
 <151> 60/055,683

<160> 294

<170> PatentIn Ver. 2.0

<210> 1
 <211> 733
 <212> DNA
 <213> Homo sapiens

<400> 1
 gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60
 aattcgaggg tgcaccgtca gtttccctct tccccccaaa acccaaggac accctcatga 120
 tctcccgac tcctgaggc acatgcgtgg tggttggacgt aagccacgaa gaccctgagg 180
 tcaagttcaa ctggtagtgc gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240
 aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300
 ggctgaatgg caaggagtagc aagtgcagg tctccaacaa agccctccca acccccatacg 360
 agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420
 catcccgga tgagctgacc aagaaccagg tcagcctgac ctgcctgtc aaaggcttct 480
 atccaagcga catcgccgtg gagtgggaga gcaatggca gccggagaac aactacaaga 540
 ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600
 acaagagcag gtggcagcag gggAACGCTCT tctcatgctc cgtgatgcat gaggtctgc 660
 acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720
 gactctagag gat 733

<210> 2
 <211> 5
 <212> PRT
 <213> Homo sapiens

<220>
 <221> Site
 <222> (3)
 <223> Xaa equals any of the twenty naturally occurring L-amino acids

<400> 2

Trp	Ser	Xaa	Trp	Ser			
1				5			
<210> 3							
<211> 86							
<212> DNA							
<213> Homo sapiens							
<400> 3							
gcgcctcgag atttcccgaa aatcttagatt tcccgaaat gatttcccg aaatgattc							
cccgaaataat ctgccatctc aattag							
60							
86							
<210> 4							
<211> 27							
<212> DNA							
<213> Homo sapiens							
<400> 4							
gcggcaagct ttttgc当地 ccttaggc							
27							
<210> 5							
<211> 271							
<212> DNA							
<213> Homo sapiens							
<400> 5							
ctcgagattt ccccgaaatac tagatttccc cgaaatgatt tcccgaaat gatttcccg							
aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc							
gcccctaact ccgcccagtt ccgcccattc tccggccat ggctgactaa ttttttttat							
ttatgcagag gccgaggccg ctcggccctc tgagctattc cagaagtagt gaggaggctt							
ttttggaggg ctaggctttt gcaaaaagct t							
60							
120							
180							
240							
271							
<210> 6							
<211> 32							
<212> DNA							
<213> Homo sapiens							
<400> 6							
gcgc当地cgagg gatgacagcg atagaacccc gg							
32							
<210> 7							
<211> 31							
<212> DNA							
<213> Homo sapiens							
<400> 7							
gc当地aagcttc gc当地actcccc ggatccgc当地 c							
31							
<210> 8							
<211> 12							
<212> DNA							
<213> Homo sapiens							

<400> 8		
ggggacttcc	cc	12
<210> 9		
<211> 73		
<212> DNA		
<213> Homo sapiens		
<400> 9		
gcggcctcgaa	ggggacttcc	60
ccggggacttcc	tccgggacttcc	73
ccatctcaat	tag	
<210> 10		
<211> 256		
<212> DNA		
<213> Homo sapiens		
<400> 10		
ctcgaggggaa	ctttccccggg	60
gactttccgg	ggactttccgg	120
ggactttcca	tctgccatct	180
caattatgtca	gcaaccatag	240
tcccgcgcct	aactccgcgc	256
atccgcgcgc	taactccgcgc	
cagttccgcgc	catttccgcgc	
cccatggctgc	actaattttt	
tttattttatgc	cagaggccgaa	
ggccgcctcg	gcctctgagc	
tattccagaa	ttagtgagga	
gtagtgagga	ggcttttttg	
cttttgc当地	gaggcctagg	
aagctt		
<210> 11		
<211> 558		
<212> DNA		
<213> Homo sapiens		
<220>		
<221> SITE		
<222> (546)		
<223> n equals a,t,g, or c		
<400> 11		
gaattcggca	cgagctgggc	60
tgcagttggc	gattccggcg	120
gggtctttt	gggtctttt	180
cctgagtgca	cctgggcctg	240
ccgccccggcg	atgcccattgg	300
atgcccattgg	gtcggtcgct	360
gtcggtcgct	ggtgtactgg	420
gagggtaccc	tgggaggcggt	480
tgggaggcggt	ttccgaaccg	540
ttccgaaccg	ccgctcactg	558
ccgctcactg	agacagtggc	
agacagtggc	tagaagtgtc	
tagaagtgtc	tcttggacct	
tcttggacct	gtgagtttagc	
gtgagtttagc	cttaaacctgt	
cttaaacctgt	tatgccccca	
tatgccccca	gagccctcag	
gagccctcag	tggagcgcccc	
tggagcgcccc	gtactttggcc	
gtactttggcc	ggcatgacgt	
ggcatgacgt	ttgatttccc	
ttgatttccc	ggtgataatc	
ggtgataatc	cgacgagttt	
cgacgagttt	gacagattga	
gacagattga	ggttagtgagc	
ggttagtgagc	aaagttggcc	
aaagttggcc	gtcagtttgtt	
gtcagtttgtt	ggccacttga	
ggccacttga	cttcgtgcgg	
cttcgtgcgg	accctggcct	
accctggcct	tgctcttggaa	
tgctcttggaa	agagatagtg	
agagatagtg	ttcttagggc	
ttcttagggc	tggtttact	
tggtttact	gtctcttaag	
gtctcttaag	actgaarggt	
actgaarggt	ggarctggaa	
ggarctggaa	tatagatgtg	
tatagatgtg	ttgttttttt	
ttgttttttt	tcaaataaaa	
tcaaataaaa	cctgcttarg	
cctgcttarg	tcgtcaactcg	
tcgtcaactcg	aaggggggggcc	
aaggggggggcc	cggtanccaa	
cggtanccaa	ttcgccct	
<210> 12		
<211> 715		
<212> DNA		
<213> Homo sapiens		
<400> 12		
cggatttcgaa	gtgcttttct	60
ccttacctcc	accctcccc	120
accctcccc	atgttttaat	
atgttttaat	gcagccctcc	
gcagccctcc	aaaaatattt	
aaaaatattt	actgagtgta	
actgagtgta	gactctagac	
gactctagac	cagggcctgt	
cagggcctgt	gctaggatac	
gctaggatac	aaagatgaat	

gaggcaccac	ccttatcttc	gagtagtata	tgttttat	tat	ttttccctg	180
ctgcctccct	tgagtagtac	atgtttat	gt	aagg	gaaaca	240
atgatgagca	aagtactgca	tgagtaagta	tctggggggc	aagtgtcccc	actaggactc	300
ctgtcagatc	tggaaaaggc	ctgaggaatc	tgat	acat	gacatgcag	360
cagcctggaa	aactaagtaa	tgacaaaata	gacattctt	tcagtgtgag	ccattctctg	420
agtccmaggg	gagta	ttcaaaaccag	aatttgcatt	tttggagttt	gcactcttag	480
cagtatacag	tggagtgaaa	ttt	aagaatc	aatttattt	ctttcagtt	540
taaaacctgc	ttactacaag	agacc	cagg	tattat	tttgggttaa	600
tatatttcat	cataataagg	ctccgtgaaa	ttagtcattt	tatcatttgc	caataaagac	660
atataatctga	aaataaaatgt	tcctgaacct	gaaaaaaaaa	aaaaaaa	ctcga	715

<210> 13
 <211> 838
 <212> DNA
 <213> Homo sapiens

<400> 13	60					
gaattcggca	cgagccaaaa	caaaagaaac	cttggaggc	atgtgtcaga	acagagaaag	60
tgtcctgggtt	ttgcttata	aatcaaata	gttctcattc	tacctactgt	tttcattcta	120
catagtgttt	tccttcttta	tagtttac	tccttcttct	aggaatgagt	ctattaagaa	180
aatagggttt	atcttttagc	tttggcattt	gacttcagg	ataatagagc	tatctgctac	240
tgacagaaaaa	gctttgacaa	gtgttata	ctctggatt	accttcatct	tactttgca	300
atcattatgt	gaacattgtc	ttccgtccac	atctayaggc	tagtawgtaa	caccgttgac	360
taaatccaaa	ctttaggcta	gggaaaaagg	gtatacttgc	tgggtttcgg	ttgttagatta	420
tgttagatc	taaycaaaac	aggacagtgg	tccaaacaga	aaattgctat	tttctgtatc	480
ttgttaatct	aggatttgag	tttttaagat	gaatttatgg	ttcccttct	gatatcattt	540
ctcatctgca	gctccta	atg	cctggta	tgggtatgga	gtgaggagag	600
gttttatata	agaaaatggaa	gtaatgatac	tatcttct	gaaatattt	caggccccag	660
aggagatgat	gagcaaggac	tgtggcctg	tattacacac	aacagggtt	tagtactat	720
cccagcaagg	aaagggtgta	tcttcttct	ttcatgcaaa	ttatctatg	tgacctaaca	780
gtttgattat	agttagtgg	ctaaccacaa	caataaaaaa	aaaaaaa	aactcgaa	838

<210> 14
 <211> 513
 <212> DNA
 <213> Homo sapiens

<400> 14	60					
ctgcaggaaat	tcggcacgag	ggaacaactc	catgttttg	taaaggccta	gagaacat	60
atccagtggc	tttcctttt	gccttgtat	tcatcat	ggcaaattac	tggagatga	120
cgggtctggc	caaaaggctg	gttttgg	tggtcacat	tttcttgc	ctctgcgtt	180
gaatcttgg	tttagatgt	gacatggta	agatctcagc	aacctcatc	actagaagat	240
catgtggatt	ggaatcatac	aatggggaa	aaatggaaaa	gagtactt	gaaatagtgc	300
tggagaccac	tgtgaccaca	aatgtcaag	acacgtgctg	ccattactgt	tactat	360
aaaatacatt	cttgttaat	caacctt	gggtt	gggaaagtctg	ttggaaat	420
aattgcaaga	aaaatattac	accctgaaaa	aaaaaaa	aaaaaaa	aaaaaaa	480
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaact	cga		513

<210> 15
 <211> 712
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE

<222> (565)

<223> n equals a,t,g, or c

<400> 15

gaattcggca	cgagctggac	aggaccggag	aggaccccgc	gtaaccgcgg	aacagacact	60
cccgccagcg	gcccggcccg	cggcactgct	acgggacgag	ccggagcgct	tggccatggc	120
ggcccgtatcc	gcactggcgc	tgctgctgct	gctgccagtc	ctgctcctgc	cggtgcagag	180
ycgctcagag	cccgagacca	ccgcgcccac	ccctacccca	atcccgggtg	gcaactcgtc	240
aktgagcagg	cccctgccc	gcatcgagct	ccacgcctgc	ggcccatacc	ccaaaccagg	300
cctgctcattc	ctgctggccc	cgctggccct	gtggccatt	ctcctgttagg	gacgcccagc	360
cagccaccc	taagtgcgg	ctgggactgg	cctggccat	tgagcaacag	agacgcttga	420
cagccgcccc	cctccattcc	ttgacttac	ccagaaatgg	gtccagaaaa	ctgaatccca	480
ccagcactgg	tttggagcaa	ccggacaccc	aggttcacc	tccagggrrt	ccatggaaaga	540
gcctcaatgg	agatgccaca	tcctnactga	gttaaagatg	ggctgaggaa	cttgggtacc	600
cacaagtytg	ccttgggrat	caaaaagaaaa	tatttacctt	tagtttggtt	cattaaatgc	660
atgaagtcaa	aatatgaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaactc	ga	712

<210> 16

<211> 652

<212> DNA

<213> Homo sapiens

<400> 16

gaattcggca	cgagcaacag	tggggcactc	tgctcccagg	caggtcccac	tgggctgagc	60
cgcacagcct	ggctttggc	ttccctgact	gcaccaccca	catcasctgc	ctctagccct	120
taamatacaa	aacttcccc	agtcaactgac	cgccaggctg	agttggggga	tgtgttacat	180
ccctgggtcc	actggggggc	agtgttggcc	atgggttgg	tgctggctct	gccgagaggc	240
gttggagtgg	ctgtgtgggg	cggtgagcgc	cggcccagcc	tgatggaaacc	cactgtacca	300
gcccagggc	tcagcctctg	agaaggactt	ccctgtgtca	ctcaactata	catgtcctca	360
gacgtgaag	acatttcagc	agaccaaagt	ttccttcgaa	tttccttcga	atcgtccaga	420
tacttggaga	catctcctcc	tcacctgtgg	ggtgctgggg	cagtcctagg	cgtggggca	480
gatgggtgga	cagctgctgc	tgccctgtcg	gggggtggca	gcccttgag	cacacagtgg	540
tgaagacatt	cctgaatatg	tctcaggtcg	tagaaatctt	attttggaa	aagattttag	600
agaatcatca	aaataaaactt	ttaccaaata	aaaaaaaaaa	aaaaaaaaactc	ga	652

<210> 17

<211> 742

<212> DNA

<213> Homo sapiens

<400> 17

gtcgacccca	cgcgtctgat	atgatctct	tatccttctc	cctttgattt	atctttttct	60
ttgagctgtat	ttgagcttcc	ttcttttctc	tgttagttggc	ggaatcagct	cagttacatt	120
ttttactaag	ttaccacat	tctgacactc	cttgacagtk	ttaagatctt	cttcttaacac	180
acttgaatag	aatggataact	ggaatctatt	tttgacagctg	ttgaaaatct	attctgttgt	240
tacaggaggt	taaggagggtt	atttgtaaaca	ctgggattat	ttaatgaacc	ttttgaaaag	300
gtgtgcagac	tgttcaggca	aatagtattt	tttagaatta	aatgattttg	tttttcacag	360
ttaaaattatc	aaatgtaatg	cttttaagaa	ttatacacct	agtaatattt	ttcattaatt	420
tctccaccag	tgttagtaata	gtacattaca	atgttctcaa	ttaccgggtc	cttctaaaat	480
gcaggtgtag	agtctttaaa	tacagctagt	ctatkgccag	ctgtcccata	gataaaccttc	540
tctytaaaaar	tgacccctkgr	gcaattyat	aaagaataaa	tatttctagt	tttttgggtgc	600
tgaactgcta	aaagatgggtt	ctatacatgt	aacaggtggc	tttagttggg	ttgttttac	660
tgaatatttga	ttcaaaataaa	gcattgcatt	attttacctt	tggaattata	aaaaaaaaaa	720
aaaaaaaaaaa	aaaagggcgg	cc				742

<210> 18
 <211> 1219
 <212> DNA
 <213> Homo sapiens

<400> 18

aacgcactca	atattcagaa	gtttgaattc	taccactctc	aaacacagtt	caaaagatag	60
ctgtttgaga	atgcttctta	actaatacta	gtacaataatc	ttcaataatg	tatgtacctt	120
atagaaaatc	ttgaacagta	caagattttc	ataattaagg	catgcaaaac	tgcttgggct	180
ctttgattcc	aggtgtcctc	ttctcccttc	tgctttgcc	atctatgttc	aatataattc	240
taacccagtc	taagtatgga	gaaaattct	accctgcctg	ctttatagc	tcatcaaatt	300
tccctgtatc	agctatcact	tttctggtag	gtgtagtcgt	atttctgtct	gtcatgcctt	360
tgccacaatc	ctttcttga	agagtaggta	aaagatctat	taaagtgtta	atcacattgc	420
tctaataatat	aaaggctcca	gtggtttccc	atatcactct	gtaaaatgcc	ccttgcagc	480
ctctcccatc	aacctcgctt	tttctgttct	tgtatatgca	catctcttcc	tgagccttta	540
ttgccatcct	catgtgggga	tggttctgtc	tcagagatag	tctttattca	ggtcccactc	600
tgcagtcctc	tccagagggg	ctgctttcac	cacccttct	aagtaaggct	ctctaaacac	660
ctctatcata	ttctatccct	tagccagcac	taatttttc	ataatgccta	ccactaactg	720
aaatttactt	tatcatttaa	tctcttcctc	attagaatgt	aagctcgtaa	gggagggca	780
gctctgtagt	ttattcatta	ttgtatgtcc	ctcacctaatt	cctatgagtg	tctggcccat	840
attagggtat	gtaataaaata	ttacttgagg	aatgaatgaa	tttaacatac	taccaattct	900
ctgagtgact	ctttttaaag	ccttcatcat	cattcacact	ttctgtctt	tcatatggc	960
atgtccaaatc	acccttccat	gaatatctgt	acctgttaca	aagagaggac	tagttcctg	1020
gagttcatag	atgtaaaacaa	cattctaggg	ktagcaaact	ggtgggcct	gagccaaatc	1080
ctggcctgca	catgtatttt	gtttgakttt	tacaatgttt	gttataaata	aactggctga	1140
taatatttt	taattggaaa	tgtttacatt	aaaaacctar	acttctagct	gctcttaaaa	1200
aataaaaaata	cggtgggc					1219

<210> 19
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (461)
 <223> n equals a,t,g, or c

<400> 19

ggtcgaccca	cgcgtccgag	caattgaatc	atctgccaa	ggataagctg	ctgttgagag	60
cagagttggg	atttgaagtc	gagttagacc	ccagtgtatc	cagtcttgac	gattaaattc	120
ttccagctt	cattttcac	tgagataatg	gtagtgatag	tactgacctc	taatgtgtc	180
atttgtgggt	atgtggtcca	ttcagctta	atccccagaa	gacaaggctt	attcctttc	240
ttatttttgg	tcatgttttta	ttttccatt	gtctttaaca	ggattacaa	aggcacactc	300
agtagtcagt	aaacacattt	ctaggaaagg	tgttgtgtca	tcatgccaca	tattcatact	360
ttcctgggtt	ggaaaaataga	tcatcagtaa	aaacatacag	aaaaaatgaa	tcttgccaaat	420
gcaattgtta	acctacaacc	ataatatacc	ttaagtatatt	ntttgcacat	aagataaaca	480
tgcgatttaa	aacaataaac	cagattgaga	tctaaggagc	attttgttaag	taattactaa	540
tgttttatttt	agagagatca	cacaacttca	aataaaaaact	gacatagatt	gaacaccttg	600
agaataaaact	ttagtgccaa	atggaaaata	atttttaca	agtaaatgg	aagaacaatg	660
tgaactttct	ataattatata	acagaaaaata	tactgatttgc	ccaaaatggag	taattttgat	720
atattaatat	ttcacttata	agaatgcata	ccacctgtatc	caggatggga	tccaggaaca	780
aaaaaagaac	attagktaaa	aatgacagaa	atctgaatat	agtatagagt	agctaaaaac	840
aaacccaaaaaa	aaaaaaaaaa	aaaaaaggc	ggcc			874

<210> 20

<211> 464
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (21)
 <223> n equals a,t,g, or c

<400> 20

caaacccttc	agtggatgag	nccaagtgcg	agaaaagcatt	ctgttgacag	atgaacagcc	60
gaaagctggc	cagaccctcc	tgkatgcact	cccwgcck	tktatcagaa	acacaggcaa	120
ggaaatttgg	actgccaccc	agcccagcat	ggtggctcaa	ttgggtgggt	gcgttgcag	180
ttgtctcttc	gtttttaa	ggttttaat	aagtaacgtt	ggcataatgt	ctttaatgg	240
gtttgtataa	ttttaacgg	ttttagcagc	ctataacttt	tcagctgg	ctttactta	300
gggaaaaaaaaa	caatttgtaa	atacagaaca	ttgtttaaaa	gacataacca	tagaacatag	360
cttcctgttt	gtggatttt	tttcctatat	attcaaagta	aatgactt	caggaaaaaaaa	420
ataaaaaaaaaa	aaaaaaaaatcg	gggggggggc	ccgg			464

<210> 21
 <211> 637
 <212> DNA
 <213> Homo sapiens

<400> 21

gattttcctg	cttgcacatcat	ttcttagcaca	gagctggagg	aaatggcgag	gtgcaggtgg	60
ccgctggccm	tgctgttcta	catgggagca	agacagctgc	taggtgaagg	ggaatgacca	120
ggcagccaca	gggaggacat	gtggcctcag	gaagcctgg	tgtgtatcct	ggttctgcta	180
gaaacacgtg	tggggctttg	tgtgggtgac	tctctggctc	cccaagcctc	ccttcctac	240
tgttatatcc	ttaaagtgcc	tctgaggcaca	aagcctttgt	ggcaattgtc	aaatgagtcc	300
atatgcagtg	agtaccgtgt	tgagggagga	caaggtcacc	aagagctgag	aattttctc	360
cgactatgt	gacctagata	ttgggtacat	ggaggtcccc	ggtcccttg	tgattcctgc	420
agcctgttgc	ctccttgcc	ggaccccgcc	tcagtcaga	aagccaattc	cctagattcc	480
aaaggccttc	ccagaccaat	tagcatgtcc	tgcaagtc	agctccctgt	gcctagcctg	540
gacctcagct	catgtctagc	acccagtctc	ccaacccac	acatattcac	aaataaaaga	600
aaataacaaa	tgaaaaaaaaa	aaaaaaaaaa	aaaaaaat			637

<210> 22
 <211> 752
 <212> DNA
 <213> Homo sapiens

<400> 22

gaattcggca	cgagggatt	acaggcatga	gccaccatgc	ccggccatata	aaagcattta	60
ggatagttag	ttgctatttt	tatttattta	ttattgtgt	tgtttattata	ttactacttt	120
atcccattt	acaaggatgg	catgttgcca	acattgtctt	tctaaagaat	atctctgatc	180
acatccttgt	tctattaaaa	accttttggaa	agctccctct	tacctttaga	agaaatttgg	240
acttcatgtat	tcctcatgg	ctggctccag	cactgagtct	ggaatgctag	tgtgagatga	300
ggcccttagaa	gtcatccagc	tgaactcctg	gaatttttat	agatgaataa	attagcatc	360
cagacatttt	tctgttgca	ccctgtamg	ccatgtcctc	ttccagactc	ctggataaga	420
ctgrcagaca	tcaccattct	cttaaaccag	aactacactt	gccttcatcc	atttgatcac	480
ctgggtccag	gtaaactcatg	agctttgtag	cttcccttct	ctcagacactt	ccaaaggaaaga	540
caatggcata	atttccccca	tatgtctaa	ttagcaacct	tteccctggcc	ttctgtgggt	600
gggcaggggcc	ggacacagtg	ggtcacacct	gcaacctgta	atcccagcac	tttgggaggc	660
tgaggtgggc	agattgcctg	agctcaggag	ttcaagacag	tctggtaac	atggcaaaat	720
cctgtctcaa	aaaaaaaaaa	aaaaaaaaactc	ga			752

```

<210> 23
<211> 492
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (486)
<223> n equals a,t,g, or c

<400> 23
aagctggact cgccgcgtt caggtcgaca ctagtggatc cmaaagaatt cggcacgagc      60
aaggacccag aagttagggtt ttggcctagg taacggggca gagatgtggc tcgagattct      120
ccccggactc tccgtcatgg gcgtgtgctt gttgattcca ggactggcta ctgcgtacat      180
ccacagggttc actaacgggg gcaaggaaaa aagggttgc cattttgggt atcactggag      240
tctgatggaa agagataggc gcacatctctgg agttgatcgt tactatgtgt caaagggttt      300
ggagaacatt gattaaggaa gcattttctt gattgatgaa aaaaataact cagttatggc      360
catctacccc tgctagaagg ttacagtgtt ttatgttagca tgcaatgtgt tatgtgtgc      420
ttaataaaaaaa taaaatgaaa aaaawrmaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      480
aaaaanaaaaa aa                                         492

<210> 24
<211> 532
<212> DNA
<213> Homo sapiens

<400> 24
actcatataaa gaaagcagta cgccgcagta ccggtccgaa ttccgggtcg acccacgcgt      60
ccgcccacgc gtccgcaccc ctcttggctg tggggagggg cttccatgcc ctgtgtggct      120
ctcggttggg ctgtcgccacc acactgctct tcctttcttc tcacgaatca cgcaagcctc      180
ctagtcagtt ctgatgagat aacctggata tcttgggtgc cggtgaagga tttacatgct      240
tattatggtt tttttgttgc tggttgggtt tggtttttt tttgtatggg gcctcagatc      300
gccgctgttg ctaatcatcc atcttggccc tgccccccaca tttctgc当地 tttaaatatg      360
agatttgcctt ccttaggtgc acagtccaga ccccatccag tccagctct tttaaagccca      420
catggaaagt cagctgagaa tggtttggga gcccaggtgc gctgtcttcc gcccgtccct      480
ctccctgaaa taaagaacag cttgacagaa aaaaaaaaaa aaaagggcgg cc                                         532

<210> 25
<211> 920
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (907)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (914)
<223> n equals a,t,g, or c

<220>
<221> SITE

```

<222> (920)

<223> n equals a,t,g, or c

<400> 25

gtcggattc	ccgggtcgac	ccacgacgtc	cgcaaaatta	acatcaaaaa	ggtatatact	60
ttttaaaaaa	aatttacttt	tattgatgtg	tactcttcct	attgatgagt	taattccata	120
aatctctact	tagtttaact	tattggatca	aattatcttc	agcatgtata	tctggggaaa	180
aaaggtccga	atttcacat	ttatatttaa	acttcaattt	tttatattta	aacttcaatt	240
tttagcaac	agctgaatag	cttgcggag	gagtttaata	gttacacatt	catgctaata	300
tacatccct	ttaaacatcc	acaaatttt	aaaaagrttg	aatcagtaaa	tttcatttca	360
gctaaaaatg	gagttcaata	tattgttca	aaagatacat	tttaccac	cataaaatgtt	420
acaatatctg	aatatgctt	gtcaactat	ccctttagc	aatcgcttc	atattgttt	480
tatgattcta	atcaagctgt	atgttagagac	tgaatgtgaa	gtcaagtcgt	agcacaaaaa	540
gataatgcac	gatgagattt	cctaccattt	tataggatat	ttactatgtt	tttatacgtt	600
aagacctcta	tgaatgaatg	tatcagagaa	tgtctttagt	actaactgtt	taattcaatc	660
tgtataaaaa	atctaactaa	ctaactcatt	tatttctatt	aaaaaggat	tgtcctttag	720
gcggggaaatg	ggaatcctt	ctgcactgtt	gcagtcattt	tgaaaggacc	tttccctgtt	780
cttaccttc	aacatgcttc	aatcttataca	acgctacatt	ttgtatttt	caaacaagta	840
taaattctgc	aataaaagaga	tgtatttt	ttttaaaca	aaaaaaaaaa	aaaaaaaaaa	900
aaaaaaanggg	gggncccccn					920

<210> 26

<211> 917

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (434)

<223> n equals a,t,g, or c

<400> 26

gaattcggca	cgagggttca	ttggcctcaa	cattctctgt	tcttcaccga	atcatgtctg	60
tttcctccaa	cctctggcaa	acactgatct	tgttactgtc	tttgggttt	tgccttttc	120
cagaatgtca	tatagttgga	atcatacaat	tgtgcagact	ttttagattt	ccttctttca	180
cttagtaaca	tttaagttt	ctccaccctt	tttcatggct	tgatagttca	tttcttttaa	240
ttgctcaata	ataaaatattt	cattatctag	atagaacggt	ttatctacct	agtgaaggac	300
atctcaattt	cctccaagtt	taggcaaaata	taaacaaggc	tgctatcagg	attttcaca	360
gaggaaaaga	cagtgggatc	caaaactgaa	tggcttatca	ataaatgacg	catggatcat	420
ctacacccat	grancattt	tgcattttat	agaaaaatcc	agatgttagga	aggtatgtat	480
aattttgcag	aaaagagtat	gtacttgaa	acaccaargaa	aaaaaggaaa	tggatctata	540
tattnaggtt	gagatattt	tgtggctgca	gaagaaaatat	attattattt	atactagata	600
gttaatgttt	gcctttgggt	ggcaagaaaag	gtaaaaagg	agaagggagc	ccaaccaaaa	660
gaggaagagg	aagaaaaaaa	aactgcacta	agaaaaatct	tttaaaagta	tgtatcaca	720
gccaggtgca	gtggctgaca	aatgtatcc	cagctacttg	ggaggctgag	gcaggagaat	780
cgcttgaacc	caggaggctg	aagttgcagt	gagctgagat	catgccattt	cactccagcc	840
ttgtgacaga	gactctgttt	caaaaaaaaaa	aaaaaaagtat	atgatcacat	ctgtgttaac	900
ttacagacta	gtctcga					917

<210> 27

<211> 662

<212> DNA

<213> Homo sapiens

<400> 27

gaattcggca	cgagggttccc	atggcacttt	atatgtgtgc	atagagagcc	agggagcagt	60
------------	-------------	------------	------------	------------	------------	----

ggggttcagg	gtggggccat	gctatgtgct	gcagagctgg	tgggtcacag	tctccccagg	120
tgtatgggt	gttaataatc	atcctaggcc	cgtggggtgg	ggtgaggatt	gatgcatgag	180
aaagttgagg	cggggccct	ggcatggagc	agggctcagg	ccgcttgc	cccaggctca	240
tgtcagccct	ccggagccctg	tgggtgtata	gggaaagcgc	aggggttctt	cagccagagg	300
gacaggttca	rggcctgctg	atgcccctt	ctgggttgg	gaccttgagc	aagtccctt	360
gccttttgt	gctgtgcctc	ggtttcttct	tctataagaa	ggaggtgatg	atgtaaccca	420
cccaccacgc	ccctctaccc	cgcgcacatcag	ggtagcaggc	gagctagcac	tgtggcacca	480
ggagtgagc	tggcccctgg	cgggcccacg	ctggagaggc	atgcacatct	ctgtgc	540
cctgtggcgt	catcatatca	acctgc	cacc	tgggttaat	ctcccagagg	600
atggggactg	rttctgcata	ttcttgct	aacaaagacg	ctagttggc	tgtggctc	660
ga						662

<210>	28					
<211>	699					
<212>	DNA					
<213>	Homo sapiens					
<400>	28					
gattcggcac	gagaaacttt	taaatcttta	gttatttctt	aatacttaga	acacttaaac	60
aaaactttac	aaaacaaaag	agcagaataa	ttagatcctt	tcaggagaat	atgacttttt	120
tttcctaagc	acactggacc	atagaggaag	accaaaggaa	tgtacagg	tgc	180
cctgacttgc	tgtatttgc	tctgtccca	ctgggttgg	caatgtatt	acccccacac	240
tttaacgtgg	caaatcccc	gaatctgtt	gctgtctct	ggctagagaa	tgagcacagt	300
ttcaccccta	tggctccaga	aagagcaaga	acacaccact	gccagccaga	agagagaaaa	360
gtcttgc	gtcttgc	cattgtccca	aatagccaag	cacagg	ttca	420
atgccaccc	tctgtgtgc	agcagccaag	gaaaagaccc	aggaggagca	gctccaagaa	480
cctctggca	gtcagtgc	cccaatttctt	tgtgtccaag	ccacactc	ag	540
ctgacaaaag	ccaacacttt	gtctctcttt	ttttttttt	ctttttttt	gagcagagtt	600
tcactttgt	caccaggct	ggagtcaat	ggcaggatct	tggctcattt	caacctccac	660
ctcccggtt	caagcaattt	tcctgtctca	gcctctcg			699

<210>	29					
<211>	1637					
<212>	DNA					
<213>	Homo sapiens					
<220>						
<221>	SITE					
<222>	(726)					
<223>	n equals a,t,g, or c					
<220>						
<221>	SITE					
<222>	(727)					
<223>	n equals a,t,g, or c					
<220>						
<221>	SITE					
<222>	(728)					
<223>	n equals a,t,g, or c					
<220>						
<221>	SITE					
<222>	(899)					
<223>	n equals a,t,g, or c					

<220>
 <221> SITE
 <222> (901)
 <223> n equals a,t,g, or c

<400> 29

aaatgtgcc	cgtttctaa	gaagggggag	tcctgaactt	gtctgaagcc	cttgtccgt	60
agcctgaa	tacgttctt	aatctatgaa	gtcgagggac	ctttcgctgc	tttttaggg	120
acttcttcc	ttgcttcagc	aacatgaggg	ttttcttgc	gaacgcggc	ttgactctgt	180
tcgtca	tttgattggg	gtttgatcc	ctgaaccaga	agtgaaaatt	gaagttctcc	240
agaagccatt	catctgccc	cgcaagacca	aaggarggg	tttgatgtt	gtccactatg	300
aaggctactt	agaaaaaggac	ggctccttat	ttcactccac	tcacaaaacat	aacaatggc	360
agcccattt	gtttaccctg	ggcatcctgg	aggctctca	aggttggac	cagggcttga	420
aaggaatgt	tgttaggagag	aagagaaaagc	tcatcattcc	tcctgctctg	ggctatggaa	480
aagaaggaaa	aggtaaaatt	ccccccagaaa	gtacactgtat	atttatatt	gatctcctgg	540
agattcgaaa	tggaccaaga	tcccattgaat	cattccaaga	aatggatctt	aatgatgact	600
gaaaaactctc	taaagatgag	gttaaagcat	atttaaagaa	ggagtttga	aaacatggtg	660
cggtgtgt	tgaaagtcat	catgtatgtt	ttgtggagga	tattttgat	aaagaagatg	720
aagacnnnta	tgggttata	tctgccagag	aatttacata	taaacacat	gagttataga	780
gatacatcta	cccttttaat	atagcactca	tcttcaaga	gagggcagtc	atctttaag	840
aacattttat	ttttatacaa	tgttcttct	tgcttgcgtt	aatttatttt	atatatttt	900
nctgactcct	atttaaagaa	ccccttagt	ttcttaagtac	ccatttctt	ctgataagtt	960
attggaaaga	aaaagcta	ttgtcttga	atagaagact	tctggacaat	ttttcacttt	1020
cacagatatg	aagctttgtt	ttactttctc	acttataat	ttaaaatgtt	gcaactggg	1080
atataccacg	acatgagacc	aggttatagc	acaatttgc	accctatatt	tctgcttccc	1140
tctatttct	ccaagttaga	ggtcaacatt	tgaaaaggct	tttgcata	cccaaggctt	1200
gctatttca	tgttataatg	aaatagttt	tgtgttaactg	gctctgagtc	tctgcttgag	1260
gaccagagga	aaatgggtt	tggacctgac	ttgttaatgg	ctactgc	actaaggaga	1320
tgtgcaatgc	tgaagttaga	aacaagggtt	atagccaggc	atggggctc	atgcctgtaa	1380
tcccagact	ttggggaggct	gaggcggg	gatcacctga	ggttgggag	tcgagaccag	1440
cctgaccaac	acggagaaac	cctatctca	ctaaaaatac	aaaagtagcc	ggcgtgg	1500
atgcgtgcct	gtaatcccag	ctaccagga	aggctgaggg	ggcagaatca	cttgaacccg	1560
gaggcggagg	ttgcggtaag	ccgagatcac	ctccagcctg	gacactctgt	ctcgaaaaaa	1620
aaaaaaaaaa	aactcga					1637

<210> 30
 <211> 2142
 <212> DNA
 <213> Homo sapiens

<400> 30

aattcggcac	agagacgcgg	gtccccgggt	ctgacaggag	cagcctgtgg	gcacccggc	60
gttagtgtt	ggcgggagag	ggtccgtac	cgccgcgc	tgcggccca	tggcctcct	120
gtcggacc	gttcggccgc	gcccgc	ccgcctagtg	ctgcgcctca	acgcggcgtt	180
gtgcgtgt	agctacgtgg	cgggcatgc	ctgggtctt	gcccgtt	tccggccgt	240
gacccagcgc	acttacatgt	cgggaaacgc	catgggc	accatgttgg	aggagcagtt	300
tgcggcgg	gaccgtgccc	gggccttgc	ccgggacttc	gcccacc	gcaagaagtc	360
gggggctctg	ccagtgccct	ggcttgcac	gacgatgcgg	tca	tggaggctca	420
cacgcagat	ttctccgg	aactgcctt	cccagatgag	acccacgac	gctatatgg	480
gtcgggcacc	aacgtgtac	gcattctgc	ggcccgsgt	gtgtccagca	ccgagtcgt	540
tgtgctcacc	gtgcctgt	gtctgtact	taccaacac	caggctgtgg	ggctgtgt	600
ggcactgg	gcccacttcc	ggggcagat	ttatggcc	aaagatatcg	tcttcgtgt	660
aacagaacat	gacccatgtt	gcactgaggc	ttggcttgaa	gccttaccac	atgtcaatgt	720
cactggcat	cagtgtctc	ccctgcagg	ccgagctgg	gccattcagg	caggctgtgg	780
cctggagct	agcagtgtat	tggtaccac	cctcgatgt	gcccgtgg	ggcttaacgg	840
gcagctgccc	aaccttgacc	tgctcaatct	ttccagac	ttctgccc	aaggggccct	900
gttgcac	cttcagg	agctgcagcc	cgaggactgg	acatcat	atggaccgct	960

gcagggcctg	cagacactgc	tgctcatgg	tctgcggcag	gcctccggcc	gcccccacgg	1020
ctcccatggc	ctttcctgc	gctaccgtgt	ggagggcccta	accctgcgtg	gcatcaatag	1080
cttccgcag	tacaagtatg	acctggtgc	agtggcaag	gctttggagg	gcatgttccg	1140
caagctcaac	cacccctgg	agcgcctgca	ccagtccttc	ttcctctact	tgctccccgg	1200
cctctccgc	ttcgctctca	tcggcctcta	catggccgct	gtcggcttct	tgctcttggt	1260
ccttggtctc	aaggctctgg	aactgtggat	gcagctgcat	gaggctggaa	tggcccttga	1320
ggagcccggg	ggtgcccctg	gccccagtgt	acccttccc	ccatcacagg	gtgtggggct	1380
ggcctcgctc	gtggcacctc	tgctgatctc	acagccatg	ggactggccc	tctatgtcct	1440
gccagtgctg	ggccaacacg	ttgccaccca	gcacttccca	gtggcagagg	ctgaggctgt	1500
ggtgctgaca	ctgctggcga	tttatgcagc	tggcctggcc	ctgccccaca	ataccacccg	1560
ggtggtaagc	acacaggccc	cagacagggg	ctggatggca	ctgaagctgg	tagccctgat	1620
ctacctagca	ctgcagctgg	gctgcacatgc	cctcaccaac	ttctcactgg	gcttcctgct	1680
ggccaccacc	atggtgcctca	ctgctgcgt	tgccaaagcct	catggggcccc	ggaccctcta	1740
tgctgccctg	ctgggtctga	ccagcccgcc	agccacgctc	cttggcagcc	tgttcctgtg	1800
gcgggagctg	caggaggcgc	cactgtact	ggccgagggc	tggcagctct	tcctggcagc	1860
gctagccca	ggtgtgctgg	agcaccacac	ctacggcgcc	ctgctcttcc	cactgctgtc	1920
cctgggcctc	tacccctgct	ggctgctttt	ctggaatgtg	ctttctgga	agtgagatct	1980
gcctgtccgg	gctgggacag	agactcccca	aggacccat	tctgcctct	tctggggaaa	2040
taaatgagtg	tctgtttcag	carmaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aatgaccctc	2100
gagggggggc	ccgggtaccc	aattggccct	atgaagaggc	ga		2142

<210> 31
 <211> 1564
 <212> DNA
 <213> Homo sapiens

<400> 31						
ggcacgagcc	ttaggggaac	gtggctttcc	ctgcagagcc	ggtgtctccg	cctgcgtccc	60
tgctgcagca	accggagctg	gagtcggatc	ccgaacgcac	cctcgccatg	gactcgcccc	120
tcagcgatcc	gcataacggc	agtggcgagg	caggcgcccc	caccaacagc	actacgcggc	180
cgcctccac	gccccggggc	atcgcgctgg	cctacggcg	cctcctgctc	atggcgctgc	240
tgcccatctt	cttcggcgcc	ctgctctccg	tacgtgcgc	ccgcggcaag	aatgcttcag	300
acatgcctga	aacaatcacc	agccgggatc	ccggcccgctt	ccccatcatc	gccagctgca	360
cactcttgg	gctctacctc	ttttcaaaa	tatttctcca	ggagtagatc	aacctcttgc	420
tgtccatgt	tttcttcgtg	ctgggaatcc	tggccctgtc	ccacaccatc	agccccttca	480
tgaataagg	ttttccagcc	agctttccaa	atcgacagta	ccagctgtct	ttcacacagg	540
gttctgggaa	aaacaaggaa	gagatcatca	attatgaatt	tgacccaag	gacctgggt	600
gcctgggcct	gagcagcatc	gttggcgct	ggtacactgt	gaggaagcac	tggattgcca	660
acaacaccc	tggctggcc	ttctccctta	atggagtaga	gctcctgcac	ctcaacaatg	720
tcagcactgg	ctgcacatctc	ctggcgccgac	tcttcatcta	cgatgtctc	tggtatttg	780
gcaccaatgt	gatggtgaca	gtggccaagt	ccttcgaggc	accaataaaa	ttgtgtttc	840
cccaggatc	gctggagaaa	ggcctcgaa	caaacaactt	tgccatgtc	ggacttggag	900
atgtcgcat	tccagggatc	ttcattgc	tgctgtcg	cttgcacatc	agcttgaaga	960
agaataccct	caccaacttc	tacaccagct	ttgcagccta	catyttcgcc	ctggggcytt	1020
accatcttca	tcatgcacat	tttcaagcat	gctcagttat	gaggagtcaa	atcttaaggaa	1080
tccagcgcca	gtgacagaat	ccaaagagg	aacagaggca	tcagcatcga	agggctggaa	1140
gaagaaaagag	aaatgatgca	gctggtgccc	gagctctca	gggcccagacc	agacagatgg	1200
gggctggggcc	cacacaggcg	tgcaccggta	gagggcacag	gaggccaaagg	gcagctccag	1260
gacaggggcag	ggggcagcag	gatacctcca	gccaggcctc	tgtggcttct	gtttccttct	1320
ccctttctg	gcccctcttct	gctcctcccc	acaccctgca	ggcaaaaaggaa	accccccagct	1380
tcccccttcc	ccgggagcc	ggtggggaaa	gtgggtgtga	tttttagatt	ttgtattgt	1440
gactgatttt	gcctcacatt	aaaaactcat	cccatggcma	aaaaaaaaaa	aaaaaaaaaa	1500
aaaaaaaaaa	aaaaaaaaaa	aaaacaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaggggg	1560
gggg						1564

<210> 32

<211> 1631

<212> DNA

<213> Homo sapiens

<400> 32

cttaggggga	gccctgggtgc	tacttgcttgc	aagtttcag	tgtaagtacc	ctgatgcctt	60
ttggaccttgc	ggatcagatc	aagagtttg	gagatcaggt	accaaggaaaa	taaggacagt	120
ctagctgcct	caagtgggg	gccctttgca	tagctctcct	tccccctcac	tgaagctggg	180
tagcctatttgc	gggttggag	gaaaaatgtg	aaatctcaga	atttatctcc	cttagaaagag	240
agccagtaac	ttatgtacaa	gatgaaaaga	aaggtcgcag	cagtagctt	ggggaaaggg	300
aggaagatata	ggcacttctc	caaccccgaa	aaacattgct	tttggaaaact	gctgataaaaa	360
tatgagccgg	ttattacttc	tggttggag	actgtgctct	ctgtggtgcc	tctcttggct	420
ctactccaca	gataccagac	ctcttctaag	aggatgagca	gaccagctt	gaggttgacc	480
tgttctcttgc	tgtctgcctt	cccaaaaacac	cagccccag	gaagacatta	agcagcctta	540
agcttaaatt	cctactccct	cttccaaatt	tggctcaactt	gccttagatc	caaggcaggg	600
aaaggaaaag	aaggggggtc	tctggcttta	ttactcccct	aagtctttac	tctgacttcc	660
ccaaaccac	aaagattttc	tccacagtg	tcatttggaaa	gaggagtatt	ttgtcccaatt	720
ttcccccttcc	tcattatcaa	acagccccag	tcttcctgt	ctctgctaag	aaagtagagg	780
catgtatgtc	tgcctctcaa	ctgcccata	tcctagctaa	gtatcagggg	aaaaaaaaaaa	840
aaaaaaaaaa	aaaggcc	taacaaatgg	gattagacta	gggctgcaag	tagtgaggat	900
cctctgtgg	gatgtgtgct	ttcccatatc	ttgccttcag	gaattacact	gtgcctttc	960
cccaggata	tgggctctgt	ctaccagg	ctccagttc	ccggttaactg	ctcttgaaca	1020
ttgtggacaa	gggcagg	tcatatttt	gatcatccct	ttctccca	gaaatccat	1080
agcccttacc	tagagtctag	ggcacaaaaga	cttcgggaa	gatacactga	gattgac	1140
aggagacatc	tacacacacc	agtggcagct	gccccagg	ctgcttcccc	ttcctaagtc	1200
tgtcatcctc	tggaaaggat	gggtgggtgt	ccaatctctg	gtgcctaaaa	acccaagttt	1260
atttctcttct	taacactggc	aataaccat	ccacaccact	gttgcctttt	aaaaccttt	1320
aataatctca	tgctgtgttt	gtttgatc	caatccaatt	atcaccagg	ctgtgtgggt	1380
aaatgctttt	aaatgctctc	tcatctgtt	ttccccctc	accccccact	cttaggtatg	1440
tatgtatgtc	atcttgc	taagtaagg	tcttcctgt	ccttttgat	tttccttct	1500
ttgtcttcct	cctacctttt	gtctctgtt	gttttggac	ttttttttt	ttttttggcc	1560
ttttgtacaa	agattagttt	caatgtatgc	tgtagcctc	tttgtaaacc	aattaaaaag	1620
tttttaataa	a					1631

<210> 33

<211> 978

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (27)

<223> n equals a,t,g, or c

<400> 33

angagttgca	tgcaagsgta	agttggnc	ytsgrggatc	tttagagcgg	ccgccc	60
ttttttttttt	tgcatgtctg	agtttgtg	ataagattca	tatttactac	aagtaatgg	120
attggagat	cagagggag	aaagtca	atcacattag	tgtattttc	tgtatgg	180
attatggaga	gttttaggtt	ttccctttt	ttcccaact	tctctccct	cagatttt	240
aaaataaacat	tgtgtgggtt	gtttttttt	gttttgatt	gtttttgtt	tttcaaacag	300
gtctcactcc	tatccatgt	ggctagatgt	cagtagtgca	atcttggctc	actgcagcct	360
cgacttcctg	agctcagg	gtc	ctcagtgctc	tgatgtatgt	ggactccagg	420

tgtgtgccac	catgcctggc	taaatttttgc	tatTTTTT	agatacaggg	tctcaccatg	480
ttgcccagac	tggtcttgc	aa ctcctgggc	tgcccaccc	agcctccaa	agtgc tagaa	540
ttacaggcat	gtgcacccat	atccagcc	ta ataacattgt	tttaatgtt	cattaagtca	600
tcccaccctc	tcagtc ttgc	agaagcctc	caagaggac	agaatcagtt	gcaaagtacc	660
atttctgacc	ctgagacatg	gatattattt	gttcatttaa	atgtcacctg	aaaaaccac	720
tcactcaat	ggtctgtgaa	gcttgcaaaa	acaggaaatgc	ttaccctcct	gggtcctgaa	780
tttttggttc	tcttgactc	tttgaattc	ttctttctca	gaaaggagcc	ctctttctat	840
ttcccctcaa	agttgtgact	tgaccctcac	atcccttct	tctccaggc	cccttgataa	900
gattctttt	aaatttctt	ggagggcatc	ccttttagga	agacggacgc	gtgggtcgac	960
cgggaattcc	ggacggta					978

<210> 34
<211> 898
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (402)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (452)
<223> n equals a,t,g, or c

<400> 34						
gaattcggca	cgagattatg	tagtagatgt	cactagaattt	cttggaaattt	gtcttcaagt	60
catggcagta	tttcagtatc	gctccttgg	gattgcctga	gtgatactca	agagtttagac	120
tagttttatc	tgggttcttt	gaagaacccg	ggacacctca	ctggctttagt	ttgaatttct	180
gcactgcagg	gaccaactat	aatatggttt	tttggttttt	tacgtgtttaa	gagctttaaa	240
atgttaattct	tcctatcatt	catgcacaaa	tgtttctcaca	caaattgttt	cacagattga	300
taaaaactttt	aataattttt	ccctgaagaa	atgttgaact	tttctgcaag	ctgttggaaat	360
kggagcgcgt	gttggaaaggc	ytgaakggga	ccgtactgt	cngcctawtt	ctttttaaaaaa	420
aaattawgat	ttcyattttt	watycattta	cngatgact	aatakgttyca	ggccagaaaa	480
tatccccctta	tttcaaaaatg	cagcaatctca	taaacaat	acttgcatt	tttcttaatg	540
acaccttttt	ctataatttt	tatagaaaaat	taagtgc	ggccaggc	cgtgttaacgc	600
ctgtatccc	agcaccttgg	gaggccaaagg	cgggtggatc	gcctgagg	tc agtagttcaa	660
gaccacccctg	gccaacatgg	cgaaactc	tctctactaa	aaatacaaaa	caattagcca	720
ggtgtgggtt	cagacgcctg	taatcccagc	tacttggag	gctgagg	cat gagaatcact	780
tgaacc	cagg	aggcagaggt	ggcagt	tcagatggcg	ccattgact	840
taacaagagt	gaaaactgaa	gtgtctcaa	aaaaaaa	aaaaaaa	aactcgga	898

<210> 35
<211> 754
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (311)
<223> n equals a,t,g, or c

<400> 35						
cagcctc	atc	tcctgttggc	cccttgc	tatgc	atgaacccct	60
gcttgc	cat	aatcttctt	ttaactc	ctc	tcatc	120
tc						

actttctgct	taaagtggac	cttgacttct	ctttatcttg	ctccatttgc	acctgaaact	180
tgtcctcaac	tgcagtgcta	attccttggt	aatgttttat	aactttgtca	ggcagctaga	240
cactgttaagt	atagaacatg	ctggaaatc	caaattaaaa	atgacagttg	gcacaaagct	300
gacttctggg	nagggaccaa	ggaaaagttag	ccagagtggc	aggatagctg	cttccatcac	360
ggattgccag	caatgtaaag	cgtagactcc	agaggaacag	tgcttaactta	aattaactat	420
gcaggcatca	gtacttctgg	ttctgtatggc	ccggggattt	ctaaagttagta	gtgagtctca	480
gcattatttg	ttatacagtc	tactgttaga	tgaacaaggc	taagtctaca	gagaaggtaa	540
attatagaaa	ttagggcccg	tctctgctaa	gaatacaaaaa	aattagccgg	gcgcgggtgg	600
ggggtcctgt	ggtcccagct	actcgggagg	tgacgcagga	aatggcgtg	aacccgggag	660
gcggagcttgc	cggtgggcccg	agatagcgcc	actgcagtct	ggcctggcgc	aaagagcag	720
actccgtctt	aaaaaaaaaa	aaaaaaaaact	cgtaa			754

```
<210> 36
<211> 699
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> SITE
<222> (483)
<223> n equals a,t,g, or c
```

```

<400> 36
gaattcggtca cgagcggcac gagccaccc ttcgtccag tctatggta tgacagttt 60
tctgtgaaa accatcctt gcttcttgc tgccatccag atgcaggctg cactcataat 120
ccctctccc ggactcagga acagcaagac tgttactatg ccattgtccc ctgcctcct 180
tccaccctc ctttttttc cctctccac tcccttctt caccctttc tttctgttt 240
atgctgctc aagtattaaat tttaaaatttgc ttctacaaga atgcgatttgc tcagaaggat 300
gtgaaccaag cagaatttct tagtatttct ttgccttagg gcattccct tgggtggktt 360
aaaatttgc cccatttctt tttgcctgt ggaacttatac ttatattttc aagagactcc 420
tamtcctaat agcactttga atttaaccc tctggtagtt cttctcagcc aaatttcacc 480
tttgcggaaaa caggattctc tggtctccat gtctggctaa tttttgtatt ttttgcggag 540
acaaagtctc actatgttgc ccaggcagg tctaaacacc tggccttaag ccatcctccc 600
accttgcctt cccaaatgttgc gggattataa gcatgtgcctt ctggacccag ccagagaccc 660
tatctcttta aaaaaaaaaaaa aaaaaaaaaaa aaactcgta 699

```

<210> 37
<211> 971
<212> DNA
<213> *Homo sapiens*

```

<400> 37
gccaccggc cgca gttc ct ggtc cg cg gc ag ct gt ga gc gccc gag gg ca agg cg gt ga
cag accg cca tc ct gg gc gg cg cc at ga gc gt gg gt tc gg ct cg ct gt ct ct ga cc ca
tg cctc a ggg at ct gg cg ca ac cc cg ac gg gg cg cc a a ga tg tc gg ac ca cagg gaga
gg ct gagg aact cg gg ct cg cg cgt gt ct ga gg ct gc ac cc tg ct at ct ca gg ct tt aagg
gag aggt ct t cggcc cagg ac ttt accg cca gt ga attt cca att ct gt ga tt tagc ac ccc
ac cc cc at ac cc ct ttt cc ac cc cc cagg ac taa agga aaga tact tact ct ct gccc ct t
cc at tt at ac ca a a gaa at ac at ag gt ga aa ccc ct ac cc tcc ca ac gt taa at gt ct
ag agga at ct tcc ca aagg c aggg cc at gc ac gca ac ct g cac ac gca ct tgg aggg ccc
agg t gtc t ct cc accc ag gccc ccat gc agt a ggg act gg aa gat at gt ct at ct gct gg tt
tg tt at ct act ccc acccc cct ac cc cagg cc gt stt cc gg a attt ct ca ac taa at tt sat
tattt ggg cag ga agg gag gt c at gg gt tc at tt ttc at tt tt tttt gt gt tttt aattt a
aagg aagg tt ac ct cag ttt tc act cc tt a gac at gg at g tag ct ac ct tt tt tttt gt at g
tct tttt tt aagg ca at cgt gt tga at tagg agt a tttt gt gg a aagg agt at g aattt gcc at
gt qat tt gca aat gg qqq qqa aq ct ac t qt g aq c qt qt qtt tttt aattt

```

acactataga	gtgattttt	tttccccaa	cgtcaagttt	ttaccttgc	tgtactggag	900
tatttatttc	atctattaaa	atgttatgtt	tctcagaaaa	aaaaaaaaaa	aaaaaaaaaa	960
aaaaaaactcg	a					971

<210> 38
 <211> 872
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> n equals a,t,g, or c

<400> 38						
tngcagttct	ccacaccgaa	gaggacggtg	ggcgccaaca	gacaggcgat	taatgcggct	60
cttacccagg	caaccaggac	tacagtatac	attgtggaca	ttcaggacat	agattctgca	120
gctcgccccc	gacctcactc	ctacctcgat	gcctactttg	tcttcccaa	tgggtcagcc	180
ctgaccyttg	atgagctgag	tgtgatgatc	cggaatgatc	aggactcgct	gatgcagctg	240
ctgcagctgg	ggctgggtgt	gctgggctcc	caggagagcc	aggagtcaga	cctgtcgaaa	300
cagctcatca	gtgtcatcat	aggattggga	gtggcttgc	tgctggctct	tgtgatcatg	360
accatggcct	tcgtgtgtgt	gcttggagagc	tacaaccgga	agcttcaagc	tatgaaggct	420
gccaaggagg	ccaggaagac	agcagcaggg	gtgatgccct	cagccccctgc	catcccccagg	480
actaacatgt	acaacactga	gcgagccaaac	cccatgctga	acctcccaa	caaagacctg	540
ggcttggagt	acctctctcc	ctccaatgac	ytggactctg	tcagcgtcaa	ctccctggac	600
gacaactctg	tggatgtgga	caagaacagt	caggaaatca	aggagcacag	gccaccacac	660
acaccaccag	agccagatcc	agagccctg	agcgtggtcc	tgttaggacg	gcagggcaggc	720
gcaagtggac	agctggaggg	gccatcctac	accaacgctg	gcctggacac	cacggacactg	780
tgacaggggc	ccccactctt	ctggaccctt	tgaagaggcc	ctaccacacc	ctaactgcac	840
ctgtctccct	ggagatgaaa	atatatgacg	ct			872

<210> 39
 <211> 608
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (10)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (16)
 <223> n equals a,t,g, or c

<400> 39						
ccatacgcac	accgcntctc	cccgcgcggt	ggccgattct	tatggcagct	ggcacgacag	60
gtttcccgat	ggaagcgccc	cagtgagcgc	aacgcaatta	atgtgagttt	gctcaactcat	120
taggcacccc	ggctttacac	tttatgtcttc	cggctcgat	gtkgtgtgg	attgtgagcg	180
gataacaatt	tcacacagga	aacagctatg	accatgattt	acgccaagct	cgaattaac	240
cctcactaaa	gggaacaaaa	gctggagctc	cacgcgggtgg	cggccgcct	agaacttagtg	300
gatccccccc	gctgcaggaa	ttcggcacga	gtttgggtgg	agtttccaag	gtgaaagttt	360
ctgaatttgtt	caatcagtga	cgcctttgtt	aagatggctc	atgtgggtgt	cgctcgcaat	420
gaatgcctga	taaggcctt	tctgtttttt	ttgcactgtg	taagtttgc	cccatcgccct	480
gggaaagtta	atatcagaca	cacactttt	acggtagaaag	agaggttgcac	tactccaagg	540

gcactgaaac tctcaactgag ctttattgtt tctctacacg cgamttgcag aaagcaggag	600
tgctcgta	608

<210> 40
 <211> 855
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (850)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (851)
 <223> n equals a,t,g, or c

<400> 40	
ctgtatagc acacaactca gaactttca gcattgtgt gattccttac ctctggctga	60
taaaaactcta atgggttgtg gcttactttt tttccatttt ctttggcttt gtcaatttt	120
tgtgttaactt tacttgttacc tatattttct gtttacagtt ctttttaagg ggaggggtag	180
gtttctaaaga tcttgggtt tattgttagat aaaaattttt tcgtgttgta gaaaagcatg	240
gtttatgcgt ttgactgaaa aagacactgtt attatttacc aaagggttat tgttttgca	300
tttggttata aatgcattat tttggtactg taaatttggata cataatttct gagtttatta	360
ctactggcat tttctttttc cttttttt ttttttaacc gtaagtgcac gatgcagggtg	420
cataggcccc agaccaaactt agaccaccatg catgttcatg tccagaccc ggcagtggcg	480
tgcactgctt gtgcacccca gttcctccag tggtgggttg tttgtttttt aattcagcat	540
cctgctgggtt ttactttcca agcaagatct gttgcgactc ccaaatgcgt tttaatgagc	600
tcatccattat ttgcctttct ttttacgtat tttgtgtatt agattgtgca ggagatattc	660
tagaaggcat taatgggttg cattcaaaaac gatgtggttt gtccaagttt ttttctgtct	720
tttattactgaa gacggattaa ttccttttatttttttttgcata tgatttgaag ttgttaacagt	780
tgtccagctt ttgccttaata aaattttgca gatcaaaaaaa aaaaaaaaaa amctcgaaaa	840
ggggccccgggn ncccc	855

<210> 41
 <211> 1042
 <212> DNA
 <213> Homo sapiens

<400> 41	
acggccccgtt attcccccgggtt cgayccacgc gkccgtgctt cctagaaggtt cgtgtcacgt	60
ggaacctttt aatctcagca tccggagctc caggaaggaa aaatttcaag tcagatagaa	120
ttctatataat accattttttt tggAACCTTC agccctcaag attccaaacat catgacctca	180
gtttcaacac agttgtcctt agtcctcatg tcactgttt tggtgctgcc tggtgtggaa	240
gcagtagaaag ccgggtatgc aatcgccctt ttgttaggtg tggtctccag cattacaggc	300
atttgtgcctt gcttgggggtt atatgcacga aaaagaaaatg gacagatgtg actttgaaag	360
gcctactgatc tcaaaccctca ccctgaaaac ctttgcgctt tagaggctaa acctgagmtt	420
tgggtgtgtt aagggtccaa gaatcgttataa ataaaggagt ttcacatttt tcattgtttc	480
catgaaatgg caacaaacat acatttataa atggaaaaaa aaatgttttc tttacaacaa	540
ataatgcaca gaaaatgcata gcttataatt tgcttagttt gtagtcaaag aagaatagatg	600
gctgaaatattt acataatgttataa tctttagattt ctctcaaagc atgtgaaata	660
ggaagaagga agttcttgcc cagaatctta ggaaatcacc actgttcgggt tataatcact	720
gcctcctgaa tcgttgagga gtctttttttt ttagattttt gttttgtgt ctcccaagtt	780
aatattatattt ttagatatac gagaatcagg yaaaaaggaa aacttttac tcttagggaaa	840
aaacatttag aaaaatgtat tcagtgtatc taatactgaa atgcggaaaaaa aaatttaatg	900

ttaaaaaaaaaa actataagaca ttgacatgga aaagagattt aatgttttga aaaaaaaactt	960
tatattaact gagtaacatc ctccgtatga gaagtactat attaaatata aaccattat	1020
gttataagtt aaaaaaaaaa tt	1042

<210> 42
<211> 702
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (515)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (614)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (673)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (677)
<223> n equals a,t,g, or c

<400> 42	60
gggacaatga actccttctg gtctaaatgtt ttgggtctgc ccctgctggc tccgctgtcc	120
atggcccgag cctctgcctg tcagagatgg tagagccacc aggacatgga gtcattgctg	180
acacagggaa acatgagatg tcttaggttt ggtgtatgtg aaacatgcat gagaaataga	240
ggccaaaagt tccactgtgg agcgcagaca gaatggctg aatgctctt cagttactac	300
gtcagttagt tgcataatctaa tatatattat acatctataa cctatgtatt taccttattg	360
tgataataact gttttgtttt gtttttttc taattttgc ttgtgcaaaag ccaaattccct	420
ttcagcagca ttgagctaaa aaaaaaaaaaa agtgcatgtt tagggctggg cacggggct	480
catgcctata atctcagttac ttcccggaggc cgaggcaggc ggatcacaag gtcaggagtt	540
cgagaccagc ctggccaata tggtaaaatc acgtntctac taaaaataca aaaattagct	600
gggcatgggt gtgggtgcct atagtcccaag ctatgcggga ggctgaggca ggaaaaaccg	660
cttgaaccct ggangcggaa attcccaatggcaggat gagccaagat cgcccaactg cactcccagc	702

<210> 43
<211> 642
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (593)
<223> n equals a,t,g, or c

<400> 43	60
aattcggcac gagccggcgaa gtcgactgac ggtaacgggg cagagaggct gttcgagag	120
ctgcggaaaga tgaatgccag aggacttggaa tctgagctaa aggacagttat tccagttact	

gaactttcag caagtggacc ttttcaaagt catgatctc ttccggaaagg tttttcttgt	180
gtgaaaaatg aactttgcc tagtcatccc cttgaattat cagaaaaaaa tttccagctc	240
aaccaagata aaatgaattt ttccacactg agaaacattc agggcttatt tgctccgcta	300
aaattacaga tggaaattcaa ggcagtgcag caggttcagc gtcttcatt tctttcaagc	360
tcaaatctt cactggatgt tttgaggggt aatgatgaga ctattggatt tgaggatatt	420
cttaatgatc catcacaaag cgaagtcatg ggagagccac acttgatggt ggaatataaa	480
cttggtttac tgtaatagtg tgctgttcat gggaaaccgag ggctgcattc tgttataagt	540
catcttgttta ctgtaattt atgtacacaa cattaaaagt actgacacacct gaaaaaaa	600
aaaaaaaaaaa aaaaaaaaaaa aaaggcccg ccgaattaag cc	642

<210> 44
 <211> 1219
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (25)
 <223> n equals a,t,g, or c

 <220>
 <221> SITE
 <222> (26)
 <223> n equals a,t,g, or c

<400> 44	
aattcccggg tcgaccacg cgtcnntaa aatccccaaa ctgacaggta aatgtagccc	60
tcagagctca gcccaaggca gaatctaaat cacactattt tcgagatcat gtataaaaag	120
aaaaaaaaaaaaga agtcatgctg tggcccaat tataattttt ttcaaaagact ttgtcacaaa	180
actgtctata ttagacattt tggagggacc agggaaatgtt agacacccaa tcctccakct	240
cttcagtgtg cctgatgtca cctcatgatt tgctgttact ttttttaactc ctgcgc当地	300
gacagtgggt tctgtgtcca cttttgtgtt ttgcggaggcc gagccccaggc atctgctcgc	360
ctgccacgc tgaccagaga aggtgcttca ggagctctgc ctttagacgac gtgttacagt	420
atgaacacac acgcaggc cccctgtatg ttttggaaagt tgccctctga aagggcacag	480
tttttaaggaa aagaaaaaaa atgtaaaact atactgaccc gttttcagtt taaaagggtc	540
gtgagaaaact ggctgggtcca atgggatttta cagcaacatt ttccattgtt gaagtgggt	600
agcagcttc ttctgtcagc tgaatgttta ggatggggaa aaagaatgccc tttaagtttgc	660
ctcttaatcg tatggaaagct tgagctatgt gttggaaagt ccctgggtt aatccatata	720
caaagacggt acataatcct acagggttta atgtacatata aaatataatgtt tggaaattctt	780
tgctctactg tttacattgc agattgctat aatttcaagg agtggatata taaaataaaaat	840
gatgcacttt aggatgttcc ctattttta aatctgaaca tgaatcttc acatgaccaa	900
aaattgtgtt tttttaaaaaaa tacatgtcta gtctgttctt taatagctt cttaaataag	960
ctatgtattt aatcagatca ttaccaggta gcttttaaag cacattttttt taagactatgt	1020
tttttggaaa aatacgctac agaattttttt tttaagctac aaataaaatgtt gatgtacta	1080
attgttttgg aatctgttgt ttctgcacaaa ggttaattaa ctaaaagattt attcaggaat	1140
ccccatttga atttgtatgtt ttcaataaaaaaaa gaaaacaccca agttaagttt ataaaataaaa	1200
aaaaaaaaaaa aaaaactcga	1219

<210> 45
 <211> 437
 <212> DNA
 <213> Homo sapiens

 <220>
 <221> SITE
 <222> (422)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (423)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (427)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (437)

<223> n equals a,t,g, or c

<400> 45

gaattcggca	cgagggcggc	accagggagc	ctggcgcccc	ggggctccgc	cgcgacccca	60
tcgggttagac	cacagaagct	ccgggacccct	tccggcacct	ctggacagcc	caggatgctg	120
ttggccaccc	tcctcctcct	cctccttgg	ggcgctctgg	cccatccaga	ccggattatt	180
tttccaaatc	atgcttgtga	ggacccccc	gcagtgcct	tagaagtgca	gggcacctta	240
cagaggcccc	tggtccggga	cagccgcacc	tccctgcaca	actgcacctg	gctcacaaaa	300
agagtgcac	aaatgcttct	attccatagc	tacggcattt	ctcagtaagt	tgaggtcaaa	360
aataaaggaa	tcatacatct	caaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	420
annaaanaaa	aaaaaaan					437

<210> 46

<211> 533

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (305)

<223> n equals a,t,g, or c

<400> 46

gaattcggca	cgaggaccct	atcttacaaa	aaagaagaag	aagaagaaaa	ccatgacagg	60
tgtctttaag	ctgccttgc	tgttctgggt	tcatgaagca	tctgtggag	gttgc当地	120
tgtaaaatta	gttgagttt	aagaaatgtt	aacgttat	gttattctt	taatttgtt	180
ttaaaaataa	tttttctcat	tcaaattctg	aattagaagt	tgtttgtt	aaatattgaa	240
aattgttag	gggagaattt	attcaaagt	taatcattt	ctttatctat	gttatactta	300
gctantagg	actggaaagt	tcaagtttta	tttttagatc	ttaacttagag	tctaaagtaa	360
ttactaaaag	ctagtttca	aataatatgt	aagagtaaag	tcctgagtt	aaagatttag	420
catactgaat	taacttagtt	gactgatgt	gtacttacat	gggcctctta	tttcttg	480
ccaagatagc	atcaacagaa	aaaaaamaaa	aaaaaactcg	ggggggggcc	cg	533

<210> 47

<211> 1849

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (222)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1300)

<223> n equals a,t,g, or c

<400> 47

gtttttaaaa aattaaaacaa ggctttgtgt tcctagaaga gcttcatttc agtgaatctg	60
gtgacctcca tctgcttgct gtcataaccc gacacggact tattttgtc attagcaagg	120
gggaaaaggc caaaggacaa gggcctctc tcccatggt tttcctgtgg gcagaagggc	180
tgaggaagat ggcccagccc gtggggctg ctgggtcacc ancagyyggt agggtcaat	240
ctgggtgtgt ttcccagcgt gagacgggt tatttgaag gtggcattca tctgcggacc	300
aaaaccgc catcggggaa gggtcagggc ttctgtggaa cttggAACgt gccaggacca	360
cctgcaaaag ccagggtgcg ttgatcatc tcagatcatt gattggcctc cacttggta	420
tgtgaattat tcatgtccca gaagaccaa aagtgcctg gttctgagat gagtattttta	480
ttcgtgttct gtttccgaaa cacttagcaa agaaggcac agtgatgtgg agtcggcga	540
cccatctttg aagatagcca gtgtccctgg atgaggtgtat gatttccctgt cccaggact	600
ctgtgaagtt tagagtagac tttgttgggg tccaaaagac accatctcta ccccaacccaa	660
ataaaaaatgc actcatctc gttagaacatc tgctgtcaaa ggccagcctg tcgttagggc	720
atggctttagt cttgacaaac cagtaacaac tgtggatgg cgatgggtgg atgtgtcgca	780
agcaattcac tagacaatct tcacatgaat gtcgttagcc agggtctctc ccgaggatg	840
gctttagct tgatgaatgt gaaccatgtc ggaattgtta ggtagaacc tggcgtggaa	900
gcctctggac cccaggctcc atccctggct tccccagct gcggccgca gcaaaaccaa	960
gcgcgagatg cagctagcac cttcataatc catccccgtt ctcagcggga caacaccatg	1020
gacagccgtt ttcagagcct ccagcattt cacaccacta ctcaccctct ctgtgtctgg	1080
catgttggta gagtcatccc tgaatcaag aaatggcctg tggaaatgtta ttgttcaacg	1140
ttgtttacag ctcttaaaac atggtaggaa atgcctaagt cttagtgacc aaacgtgacc	1200
ttgaaagcag acatagcatg acagacccctc ctagagtgtt tggcgggtt cacagtgacc	1260
gagagtcaag tccagcacac acctggaaa gggatgctgn cccaaagggg accaaaagg	1320
ccggacgtt cagggtgaaa ccctctgacc cctcgcgaca ccgtaggact tgactttgt	1380
ttagtctttc taagaaaatag atcatggagc caagtgaagt gcactttgtc aaatgttaagg	1440
gtctgttttgc ttcttggttc ttttctgtt tttaacctt tttccggca tttaaaaaaaaa	1500
aaaaaaaaaaa aagcttatgt ttctgtcaa atgcagaaat ttcccttcgg ccactcactg	1560
aagtttgc ttctggcttgc tgcatgtttt attgtctgtc tcagacgtac agccagacat	1620
gttctcttgc ggcatttttgc cgattctgtt cagatgacag cgaccgcctt ttcatcccc	1680
ccgccacctt tactcacccct cacgtctttt gaagaaaaaa aaaaaaatca cttgtgtgt	1740
tgtagctcat ttgttcaag agagaatcaa cagatcatat tcagtgtctt gaataaatttgc	1800
ctcttattttt atatttagaaa aaaaaaaaaaaa aaaaaaaaaaaa aaaaaaaaaaaa	1849

<210> 48

<211> 926

<212> DNA

<213> Homo sapiens

<400> 48

ctcaaccaca actagaattt gcacaatata agcttgaac gaaattcaaa agtggtttaa	60
atgggagcat cttggctgag agggaaagaac ccctccgatg cctaataaaag ttctctagcc	120
cacatcttct ggaagcattt aatccttag caccagcggg tattgcagat gctccacttt	180
ctccactgt cactgtcata cccaaacaaga gaatgaatta ttttaaaatt agagataaaat	240
aagacgtgcg tggtttctta agcacagctc ctccttcttg atattgcaca tgcacttcag	300
ttcatggcta gctgtatagc ttccgtctgt aaacttgtat tttcaagaat ccttggatt	360
gaatttttag aaatgctcac ataattgttgg ggtactgatttccctccac gatatgcctc	420
ctctctctga tatcctgcta actgttagccg ttgtggcatt tgagatgaca ggacatata	480
atataatggcc ccacacttga ccttggatgc ctgaatgctc tgaaatcaag catatggcac	540
agcgtcaag acttttgggt ttgtgtccctt ttttctatgg ctgtctcttc tcaattctgg	600
agagggtctgg ttccagtggc ttgttccyaa ggattgatttcaagctctg gatcacagag	660

agaagcaaca	aggaactata	ctcaactcaa	aacttttag	gagaatcatg	aaattggct	720
attcaagga	tggagttgag	tccatwmtgt	tatttgtgca	agaggtgca	tatttgtga	780
gtcagttata	taaaatagt	ttcttattgt	aaatatgata	cttctataa	tctatTTT	840
catgtgtata	acattcaaac	tgacaaat	attgacttat	gaataaaggt	gtcaaaaaac	900
aaaaaaaaaa	aaaaaaaaaa	ctcgta				926

<210> 49
<211> 1593
<212> DNA
<213> Homo sapiens

<400> 49						
gcggacgcgt	gggctgtgct	ccctgcagtc	aggactctgg	gaccgcaggg	gctccggac	60
cctgactctg	cagccgaacc	ggcacgggtt	cgtggggacc	caggcttgc	aagtgacgg	120
cattttctct	ttctttctcc	ctcttgagtc	cttctgagat	gatggctctg	ggcgacgg	180
gagctacccg	ggtctttgtc	gcatggtag	cggccgtct	cgccggccac	cctctgtgg	240
gagttagcgc	caccttgaac	tcgggtctca	attccaacgc	tatcaagaac	ctgccccac	300
cgctgggggg	cgctgcgggg	cacccaggt	ctgcagtc	cgccgcggc	ggaatccgt	360
acccgggggg	gaataagtac	cagaccatt	acaactacca	gccgtacccg	tgcgacagg	420
acgaggagtg	cggcactgat	gagtaactgc	ctagtc	ccgcggaggg	gacgcaggcg	480
tgcaaatctg	tctcgctgc	aggaagcgcc	gaaaacgct	catgcktcam	gctatgtct	540
gccccgggaa	ttactgcaaa	aatggatat	gtgtgttcc	tgatcaaaat	cattccgag	600
gagaaattga	ggaaaccatc	actgaaagct	ttggtaatga	tcatagcacc	ttggatgggt	660
attccagaag	aaccacctt	tcttcaaaaa	tgtatcacac	caaaggacaa	gaaggttctg	720
tttgcctccg	gtcatcagac	tgtgcctcag	gattgtgtt	tgctagacac	ttctggtcca	780
agatctgtaa	acctgtcctg	aaagaaggc	aagtgtgtac	caagcatagg	agaaaaggct	840
ctcatggact	agaaaatattc	cagcgttgc	actgtggaga	aggctgtct	tgccggatac	900
agaaagatca	ccatcaagcc	agtaatttt	ctaggctca	cactgtc	agacactaaa	960
ccagctatcc	aaatgcagtc	aactcctttt	atataataga	tgctatgaaa	acctttatg	1020
acccatcatca	actcaatcct	aaggatatac	aagtctgt	gtttcagtt	agcattccaa	1080
taacacatcc	caaaaacctg	gagtgtt	gctttgtt	tttatggac	tccctgtga	1140
ttgcgtt	ttactgtatt	gtaaatttcc	agtgtggcac	ttactgtt	atcaatgaa	1200
acttttaatt	attttctaa	aggtgctgca	ctgccttatt	ttccttctgt	tatgtaaatt	1260
tttgcacaca	ttgattgtt	tcttgactg	caaatttct	atattgaact	gaagtaaattc	1320
atttcagctt	atagttctt	aaagcataac	ccttacccc	atthaattct	agagtctaga	1380
acgcaaggat	ctcttggaa	gacaaatgt	aggtacctaa	aatgtacat	gaaaactacta	1440
gcttattttc	tgaaatgtac	tatcttaatg	cttaaattat	atttccctt	aggtgttat	1500
agtttttggaa	ataaaatttta	acatthaata	tcaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1560
ctcgaggatcg	acggtatcg	taagcttgc	atc			1593

<210> 50
<211> 978
<212> DNA
<213> Homo sapiens

<400> 50						
gaattcggca	cgagatgagt	ttggccacgt	gatgcaccag	ctctgctccc	agggtgggtgc	60
gggccccggc	agggcagggg	gcagggcag	ggcaggggc	tgccctgtgg	cagcgaggcc	120
caagcctgg	gcttcggctt	ccggctctt	ctgcacccgt	ccggtggtc	cttcataccaa	180
tgccacccaa	agatgggtac	tccctgtcat	gcccgtgtcc	tggggctg	ccagcaaaac	240
accacagacc	agggcttaca	caaggtgcgt	gtatttc	atggctctag	aggctggagt	300
cggaggtcac	agtgtcagca	gggttggc	cctcgargtc	cctccttggc	ttgtggccgc	360
caacaactc	ccgcatactca	tgtggtcgtc	cttctgtgt	gttccccat	tygtcttctt	420
acrrggacccc	agtctgcccgg	atccggggccc	gcccaacaac	ctcacttgac	ctagtgacct	480
ccttagacat	ctgtctctaa	gtagtacat	ctgggattac	ggcgtgagcc	atgttcccgc	540
ggaatttctt	ttttatagta	ttggataaag	tttgggtt	ttacagagga	gaagcaatgg	600

gtcttagctc	tttctctatt	atgttatcat	cctccctttt	ttgtacaata	tgttggta	660
ctgaaaggaa	ggtttctatt	cgttgggtgt	ggacctggac	aaagtccaag	tctgtggaa	720
ttaaaacctt	gaaggctgt	cataggactc	tggacaatct	cacaccttag	ctattcccag	780
ggaacccca	ggggcaactg	acattgctcc	aagatgttct	cctgatgtag	cttgagat	840
aaaggaaagg	ccctgcacag	gtggctgtt	cttgcgtgtt	atgtcagagg	aacagtcc	900
ttcagaaagg	ggctttctg	agcagaaatg	gctaataaac	tttgcgtga	tctggaaaaa	960
aaaaaaaaaa	aaactcga					978

<210> 51
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (424)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (430)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (431)
 <223> n equals a,t,g, or c

<400> 51					60
cggccgctc	agaactagt	gatccccgg	gctgcaggaa	ttcggcacga	ggcgaaaagg
cttattccaa	ggtaagaggg	gctgtgtaa	ggggcagtgg	gatggatgg	ggggggcat
gggcaggca	caagggaa	ctccagcccc	ttttctgcca	caagcaagag	gcactcagcc
ctacctgaga	tgtgttattt	tttagaaata	tctttattga	tggctttgc	actcaatata
aaggcagcat	atgggtgtt	caatataaaat	gttacagaag	tccacagagc	aaaagggcca
gtttctgtcc	ccttcctct	ctccaggcct	ttttctggaa	ccccattatt	ggatagatta
agacctttcc	agaccttgc	aaaaaaaactc	ggggggggsc	ccggaaacca	
attnccccn	naa				433

<210> 52
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 52					60
gaattcggca	cgaggcctgag	tcaacttgat	atccaaagctt	tttacttcaa	ttatctggca
agattacata	gactgtcaaa	gtttgtaaa	gttttagcaag	aaaactgtct	tactcacaga
accacaggac	taactgactg	aaccacactc	caccattgc	ccctatttcc	aggcggtatg
gtcaccctgt	agtttctaat	ctgtatagat	gtgttagagca	tgcctctcc	ctttcccttt
ccccctccctg	ttttcccttc	ctcttgcct	ttcttaatgt	ctgttcttat	tggcttcttg
atcttggct	ttaatgttca	tccttaagct	tgcttctctc	ttcagactac	tgattcagcc
tcttgcatct	tcttcaact	tggccaaaaa	aaacaggcaa	cattttcttc	ctccactacc
tcatcatcat	ccaattttt	cctttagttt	atattaccac	aactctccta	aacgtcccaa
gtcttattt	aagtctaaaca	acttagctt	gaacctcaat	ccaaggcatct	gacaacacac
tgaaatgtgc	aagcaagagt	cccwatggcc	gggtgcagtg	gctcatgcct	gtaatcccag
cactttggga	ggccaaagggt	ggatcacctg	aggtcggag	ttcgggacca	gcctggccag
tatggtgaag	ccatgtctmw	actaaaaata	caaatttgc	cggacattgt	ggtgcacgtc
					720

tgtcatccca gcaaggcagg cgaatcgctt gaaccgggga ggcggagggtt gcggtgagcc	780
gggatcgtgc cattgcactc cagcctggtc aacagagcga gactccgcct cattaaaaaa	840
aaaaaaaaaaa aaaactcgta g	861

<210> 53
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (380)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (396)
 <223> n equals a,t,g, or c

<400> 53	
gatccccccg gctgcaggaa ttccgcacga gtgaaaaccg cctccaccaa cacccccgtt	60
tgcctacacc accccccctt tacttagtat gtttattttt tttgtgtctc ttgccttcct	120
cccacgtttt atttccctc agagctgtga atggcagggt ctgtctctgg tttggcatca	180
ctgagttttt cccatgcatt ggccccaggg ctgcttaggat gtgagacaaa tctccctaca	240
atgggcttgc tcccattgtc tgtacagttt aatagatgtc ggcatgtcgg aggttaccca	300
tgagtcaaaa tccgctctcc atgcttactc ttgacaccccc attgaagcca ctcattgtgt	360
gtgcgtctgg gtgtgaagtn ccagctccgt gtggtnccctg tgcttgtact gycctgctt	420
tgcagttcct ttgcacttac tcatcgagtg ctgtttgaa atgctgacat tatataaacg	480
taaaaagaaaa aaaaaaaaaaaa aaaactcgta	510

<210> 54
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (301)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (305)
 <223> n equals a,t,g, or c

<400> 54	
gaattccccg ggataaaattt catttcccaa agatgagtag gtatgaaaaa taatactcag	60
aagagattgt tcttgggg agaactgctt ctacaggatc tagctttgat tttgtatctt	120
tcaatctttt taaaatcaac ttaacgaat ttaaacctat tttaagtgtta caagtaataa	180
gtttgacaat tgtatgtgac ttctaccaca ataaaaatata gaacattttt atcattctat	240
aaaaaaaaaaa aaaaaaaaaac tcgagggggg gcccgggtacc caattcgccc tatagtgagt	300
ngtancgtc	309

<210> 55
 <211> 1585

<212> DNA
 <213> Homo sapiens

<400> 55
 ggaatttctt aaatatgttc atgtataata cttgatcaaa atattttgg gttttttgtt 60
 ttgttttaat gggtagaaa atgtttacaa tcttggtctt atatgatcac caatggaaa 120
 gtaacttcca gtttatatc aatatgagct gacttaact gagttgttg ggataggaa 180
 gaagcagtcc ctctacagta tacaactact gcttgcagc tggatcaaaa taatcatgtt 240
 ttatgaaaat atctccctta agcagtgtt aggttggtt gcagtgtgt agtggcacat 300
 tgaactggaa gtttcttga aagctgctc atctattaag aagcaattt caaattgttag 360
 cgaattatat tatccctctt tttaaagaaa cagtcgttat atgctgatgt ttcttaaaat 420
 aactaaaatg tkcctcttaa tgtgattta aatggagtt tttgttagtc ctttcttagt 480
 agtaaagaat cttcttaggg gaaacattt tgcttttagg gataatctc cttgtgcctc 540
 actacatccc taagtggta tgactctgtt tattaccaca tgcttttta gtatattca 600
 caaatttact tttaaatatt attttagata cggtaaca tgtgcaattc agaataattt 660
 tataacaggt catggaaaac ataaactttag ttagattca caatattgt wctccacata 720
 atgagagaat gaatgagcct ttggagatac tgatataagg caattatttt ttgcaatgtt 780
 gaatgtgtt tttagttga ttctttttt ttcccccaat agggcactac ctgccccatc 840
 atcttgtatt acttttgat gtaaagcga taatatttac actatgcatt atttttttt 900
 attatagtt taaattatga aagatcctt aatttctac agatctacaa ctactaatgt 960
 aacagacaag ggcaatctt gtatttaat ctgagcatgg cagttctacc ataaaaagta 1020
 ctctatttt ctaatttcta ggattttaa aataacattt ctgttaagtct gacataactaa 1080
 tagtcactca agcagtagcca tttattttag tttgcatata ttttcaactgt tttttaattt 1140
 atgtatttag tctaataatgg ctgttttgcataat trgaa taaagattt tttcttctaa 1200
 tcaaagatgc ataaacagcta ttatctaggg gaccmccaaa tgtgatttca aaattttgtt 1260
 aactattaca aatgtaatcc ttatataggaa attttaattt tgtaaaagtag ttttcaat 1320
 tgtaatatta aattcttgc tttaaatttca aatatgtatt gatcttcaat gtgtgtgtt 1380
 aaatcttgc tctctgaaaa gttggagaca agattgtct tccttttac agtttgaat 1440
 tttcaactgtt ttattccctgt taaaaaaaaaaa aaaaagtcat ttgttaaccca tgcagaccat 1500
 tgtttgcatt atgctaactt atcaacttgg ctattcaata aagtttaattt aaaaagaaaaa 1560
 aaaaaaaaaaaa aaaaaaaaaaaa ctcga 1585

<210> 56
 <211> 874
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (468)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (501)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (546)
 <223> n equals a,t,g, or c

<400> 56
 agggaaatct cgggtctgct acgagtggtgg ggccagccgt ggaggctcca ggtgttctct 60
 ctgccccagc agagcccgcc aggagcccca acagaagcc agcgccggcat ggctgccacc 120
 gacttcgtgc aggagatgctc cgccgtggcc gagaggctgc tgctcaagct gcagagactg 180
 cccccaggctg agcccggttga gatcggtggcc ttctcagtc tcatccttt cacagctact 240

gttctgctgt	tgctgctgat	agcctgcagc	tgctgctgca	ctcaactgctg	ctggccctgag	300
cggagaggca	ggaagggtcca	ggtgcagccg	acaccacca	gacggacggg	cgatggctga	360
ggagaagctg	gagaggagat	ggccaaatgcc	atgacacagg	ccatcagcct	ggccctgcag	420
cccttacccc	tcaagaccag	gctccctgg	ccccagctct	ggcccagncc	caggtacctg	480
gacactgaca	acttgagccc	ntaccaagga	aacaagggct	ggtataggtg	caaacccttc	540
atctgnccag	tggacactgg	gtgctgggg	gtcagctgtt	tcaaagactg	ggtcaactgc	600
ctgggcttct	tcgccttaccc	gcactttta	acaaaacaag	gaagtagggg	tcccccatacc	660
ttgatggaga	acagtcccca	cctgtgggc	attggccctt	ggggctctgc	tgatatacatgc	720
caaagaggag	caaggcaatc	agaggggctt	tgtcaatag	cttctgcatac	cgagctcccg	780
ccagagcgtg	agcatgtcag	tattctagtc	cagtatttgc	cagtttccaa	gtaaaagctt	840
ttgtgttaaa	aaaaaaaaaa	aaaaaaaaact	cgta			874

<210> 57
<211> 1169
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (2)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (9)
<223> n equals a,t,g, or c

<400> 57						
gngcggccnc	cctttttttt	ttttttata	tttatcaat	tttattgaaa	tattccaagg	60
atccccaaacc	cattaaaaaa	taaaaattgt	aaagcactcc	attcaataaa	agcacataag	120
tccccctcaa	taatttagtat	gacaattcac	gatacagctc	ttactctggg	agagtttatt	180
ttacccttta	ttccaaaagg	cacaaagtca	tctgaggcct	cagatattaa	ccccactgca	240
tgttaatgac	acaccactga	ggtgcagctc	aatgttaatta	ttaaagctta	taacacactt	300
ccccaaagaat	ttatagattc	tttctataaa	taataattta	aaaaatactg	cacctaaga	360
ccaatacagg	cttaacaaaa	gacctgaaat	ttctgcaagg	gcagtttgt	ttcttgatag	420
aagtacaact	tttggaaagtc	tattcccagc	aaaagaaaaca	ctagaccagg	cttggccaaa	480
gaaacaaaaat	aaaacaagtg	atttctaaca	cgctaaaaga	gtacattttc	atcagctcca	540
aagaaaagcag	tcctggtcat	tcagaaggct	cctatgatcc	caccagtcg	cagtcattag	600
aaatatatgc	tttacaggcc	acaggctgtc	ctggatttgg	tttcagacac	cagtgaccag	660
aagaagccag	ttttgcgtgt	gaggggtgtg	ggcccccgt	gccttggcc	tgctcaccgg	720
ggtggatgga	ccccccgcgg	gtcacagcct	gctgtcacgt	ctggactgtt	ggccctttct	780
gcatctggc	tggtgggctc	tcctgcttc	tgtccctcag	tcacgtcatt	gtctggctgt	840
ccgggtgctg	ctgcactctc	atttgtgagg	ataacccctt	ccttcttctt	ttctcccaat	900
acctccagcc	ccatcatcct	gagataatga	agccgttcat	tcttgggcac	aaaagttcga	960
atggaggcct	tcccccccca	tccgcataa	acgatgggac	actgcagagc	gtctggattc	1020
gcagaatctg	gttcataactt	cagcacgat	cttcccttgc	ccaggtcctt	tgcttgactg	1080
taggtctcac	tgctgagttt	tctaaaaaaag	ggatttcct	gggtcaacag	tatcttaaca	1140
tcttccatttgc	atacagtaat	aattctttgc				1169

<210> 58
<211> 1066
<212> DNA
<213> Homo sapiens

<400> 58						
gaattcggca	cgagcaaatg	ttgaaccaat	tatgtttgg	tggtgggtt	cttagctgtt	60

gaatcctgaa	tggttataa	agtgaactag	ctggcttaat	gcagccagcg	ttctgggcag	120
cagaacatat	tcattcttac	tgtaaattct	atttgctgct	tccaaagggt	atgattttca	180
agcagacatg	ttctatatgg	tctgtgtttt	aggatctggt	gcccagcctc	tatcagagct	240
tgcctacctg	gcaaagctgc	ctacccttca	agtggaaaaa	tataatccac	tgtttaacaa	300
ggctcacccct	ctccaccctg	tcctaacgac	cttttgcgaa	tgtgctgtga	tatttcttg	360
ctcaatagca	aggtggtagc	tctgcttca	ttttaagaaa	gtggaggctg	agggcattgt	420
atcaatactg	ttgcaactcc	aagaagttt	ccttgtaaaa	ttaaaggaaa	gatcttgtta	480
ttgattaacc	attttcttat	gccttgctat	tgacatattc	atgctcttc	tacgtctagt	540
ggctgaaaat	gtttgcattt	gttcatttga	ctaattgtgt	gattttgky	ycwatattat	600
tagacctgta	atgtttaaa	atgtatttta	ttaaatttgg	actggatgta	tgkccctctag	660
caatacggagg	tacttctaa	actattaagg	gaggggttgc	aycctcatgt	tgagataaga	720
tgatggcgt	ttaaatttttgc	caatttttttgc	tggcctgcag	ggatattttgc	tgtttagtg	780
tccaaaaaaag	gaataaaatttgc	gcattcttgc	gccaaaagtt	gttttccctg	tcaattgtct	840
aataagtatg	cagtacactg	taatggcaac	atacatggtt	gctttataaa	aacagttcc	900
tcagttatgag	aaattttaca	aagaacagtgc	aaaaaaacttgc	gtgtttttaa	ctctgggtc	960
tccctatttttgc	taaaaatttgc	tattttgtat	acaatttattat	tgtgtcaatt	aaaactaaaaaa	1020
aaaaacttttgc	aaaaaaaraaaaa	aaaaaaaataaa	aaaaaaaataaa	ctcgta		1066

<210> 59
<211> 772
<212> DNA
<213> Homo sapiens

<400> 59						
gaattcggca	cgagctttcc	tgaggctcag	tttctccaac	ggtggggaggt	ggtagaaatt	60
gatatagtac	ttaccactga	gggtaaaatg	agatataacc	tgtgttaata	ctgtacacca	120
cagtcattca	atagtggcag	ctaaaaaaaat	ttattctacg	attacccttgc	cttcagtgtat	180
tcttcttgggt	gttatttgc	ggtgagatct	cggtggggat	ctcccagggt	tttccataat	240
cccagcgtac	accccaggga	gaacctctct	ccttaggctg	ctagaggaca	tgtgccatag	300
gaccagatag	gagggagggg	cagcggtgg	aatgcgtttt	cagagctacc	tttggccaag	360
ccgtatccctt	gtggggacct	attgcattgc	tgctgaagtgc	ctgttccat	cagccctggc	420
ttcgtgtggc	cctgtctggc	aaggggggtgc	tcctacaaag	tcatggcagc	ctgggtccaa	480
aaccatcatc	ccataggacc	tgctgttagct	ttgccagaag	cctggcccaa	gggggtggagg	540
cccctggagc	tctgacccac	cacgtggagg	gtggaaaatg	ccacagagca	gtttctctag	600
aagggatttg	tcagaagcta	aactgggggtgc	ccccctgggc	tcaggcctgc	acagtttctc	660
cctgaccacc	cagctggat	ggatatacgat	acaggtgtca	tgttgcagaa	agcctgcccct	720
aagaggccct	actgggttttgc	tcctttat	aaaaaaaataaa	aaaaaaaactc	ga	772

<210> 60
<211> 1198
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1189)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1191)
<223> n equals a,t,g, or c

<400> 60						
tcgacccacg	cgtccgatttgc	aattcttatttgc	ccccacagttgc	taggttattttgc	tcatttagtac	60
atcaatttgc	cacactgaat	gcaagactat	taaggaagaa	cgattaaata	ttatattttat	120

tttgtgaagag	ttggcagcag	attacatctc	aagaacttgc	agagagagga	aggttagatgg	180
acaatcctaa	attgttaagat	gttacaaaaa	acagtgaagt	aagagtactc	ctgaagacta	240
aaatagagag	qctggggttt	gagccatttt	actqagttagc	ttagctggaa	cctgatatac	300
gaagtagccct	ttaacaaaaa	gcctcttggc	aattgtatgg	tactaacaac	tagtactg	360
aagtgttaagt	tgaaaccaag	ttgcagtgg	aaatccaaagg	tgaggttagct	tatttggaaac	420
cagcaaatga	gacaggttgg	acagtttaa	aatctttct	aacaaagaaa	ctgcacggta	480
gcaaggacta	gcggttctca	aagcccttct	ttttcagtgt	tctcattcac	cttggcaccc	540
aagtatgttt	aacaggccat	gcattaaaaa	taaatacaca	aatataaaaag	ccgcttaaag	600
ggaacttaca	aactgacaat	ctctcctctg	tatttggtt	catagtggt	gggagtttaa	660
ttatatgcac	aaaagtttagg	agccacttgt	ttctgcacag	actgttaggag	caagatgagg	720
agatgggcag	gttttggtaa	gagccccag	ttctggtgg	caggcatact	tgtggcattg	780
ggtgcggcat	tgctgggagg	accacgtctt	gggaggcgat	tgacttttg	tttggtaattt	840
ccctttaaac	aagaagagat	ggctcacatt	ttccatata	atctcaatga	atgtactgt	900
ttactgtttt	aaaaatttga	tgaaataata	atgaatttgt	ctccctttgt	tatctggtcc	960
ttgtttaatt	tgtttaaggg	tttttgtata	caaaagtta	cattttatgt	tatatttttc	1020
ttgtgtaaaa	actgtatgtaa	tatgtgtatg	aaacactgt	tgtattatct	gtatatagtg	1080
tgacaaaatc	attttcttt	ctttctttg	gatgtattaa	taatcttgc	tgtgaagtaa	1140
aaaaaaaaaaa	aaaaaaactc	gagggggggc	ccggtaccca	ataaccctnt	natgtatct	1198

<210> 61
<211> 558
<212> DNA
<213> Homo sapiens

<400> 61	ctgcaggaat	tcagcacgag	ytggcatgtg	acaacccagg	gctgcctgaa	aatggatacc	60
	aaatcctgta	caagcgactc	tacctgccag	gagagtccct	caccttcatg	tgctacgaag	120
	gctttgagct	catgggtgaa	gtgaccatcc	gctgcattct	gggacagcc	tcccactgga	180
	acggggccct	gcccgtgtgt	aaagtagcag	aagccgcagc	agagacgtcg	ctggaaagggg	240
	ggaacatggc	cctggctatc	tcatccccg	tcctcatcat	ctcccttaactg	ctgggaggag	300
	cctacattta	catcacaaga	tgtcgctact	attccaaacct	ccgcctgcct	ctgatgtact	360
	cccaccccta	cagccagatc	accgtggaaa	ccgagtttga	caacccatt	tacgagacag	420
	gggaaaccag	agagtatgag	gtttctatct	aaagagagct	acacttgaga	aggggacttg	480
	tgaactcaac	cacaatctcc	tcgagggggg	gccgtaccc	aattcgsct	atagtgagtc	540
	gtattacaat	taatgggc					558

<210> 62
<211> 616
<212> DNA
<213> Homo sapiens

<400> 62	gaattcggca	cgagtcgttga	cagcctggtc	accaagggtt	tggaaaaagg	ttctatttgg	60
	gtggagattg	atgggtggaa	aaaggagaga	ggggagttgg	acctgatacc	aaagagatgt	120
	tttcagccat	caaccagctg	aaaaacaaga	tgggcttctt	tttcctacat	attttccaa	180
	gcatcataaa	tactcggtct	gtccccaaac	ccacatcctg	caggatgcag	ccagagcaac	240
	agccccactc	cactctgaaa	caagtcatcc	taggatgtat	gatcattttct	tagttccct	300
	gttggaggtc	ggttggggtt	ggctgatcgc	tgcttggttc	actcctgcac	tggctggcg	360
	ttggctgcat	ggttaaagctg	ttccctgtct	catctgttg	ggataaacag	agtatcctag	420
	gcatattttc	tccagagcag	tggcagacac	aaagggtcaa	cagaaaccct	caaggtttg	480
	tcatgcctac	tcttgcaact	agcacattgt	catttcagcc	tcatgctatt	gaccaaagca	540
	agtcaacttga	ccaaattcaa	agccacaaaaa	ctcgtgccga	attcgatatac	aagcttatacg	600
	ataccgtcga	cctcga					616

<210> 63

<211> 811
 <212> DNA
 <213> Homo sapiens

<400> 63

gaattcggca	cgaggagctt	ccatctttc	tgatgtgagt	ggtgtcagga	atgactatgg	60
tgggttagt	ggcagtggcg	atggtttct	ggaggctgaa	aggtaaagt	cccaatgcag	120
aagtgtatgc	agggctagtg	gttggcggt	gcagggtcag	taaagtca	ttcagatgct	180
tcaatggtga	ctcccttctc	gtgttagtcc	tacagcatca	tttcagactt	tgttcttgg	240
gcttagctcc	aagcctctc	ctcctgctgt	cctgtcaggt	tgtgtccact	atgatggagc	300
aagaccctgt	catctatgtat	gatgtatgacg	acttgcctaa	ttattttct	gtttaagct	360
gccatagtg	atcctgttat	ttgtgcctaa	gagctttac	tgacaaagaa	cgtgttaccg	420
gaagtggat	gctacaagta	acaacactaa	aagtagaaatt	gactaagtgc	agcaggcagg	480
cctttgagca	aggaggggac	acacattaca	ggctggaaag	ctggtgactc	ttgtatgca	540
gtggcaaaat	tttgcctcaa	ctactatata	caatacttga	agatgcacac	tgcaagctga	600
gtgaggctgt	gataagaggg	gaaatagtgg	ggagcattca	aatgttgg	ttacattgtat	660
gacttcttgc	tcttcagca	gtcttgatag	agcagctata	cccacaccag	agtcctccag	720
ctgacaagag	aggtaaggag	agaaaactgt	ttgcaggag	gggcctctg	ctgcagctgg	780
aggtccaagt	tgaccgagag	cccaaatttt	g			811

<210> 64
 <211> 993
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (370)
 <223> n equals a,t,g, or c

<400> 64

ggcacgagcc	caaagtgc	ggattacagg	gagttgtatga	aagtggagat	gttttttagag	60
ctacctatgc	agcattcaga	tgttctcc	tttctgg	gctggaaagc	catggatcc	120
aaaaagtctc	catcacat	ttsc	ccagag	gtaggggg	ttat	180
ttgaatgtca	ccctttaag	gagc	cata	ttat	ccag	240
gacaaagcat	cgaagcagaa	aat	gagc	aaaacgc	cat	300
ttaaaataga	tcatttagt	aag	cccc	gaca	agctgt	360
tacctgacan	gcagctt	gtg	actgt	gtt	gargct	420
gttcttgc	gactgtgt	ggg	aaat	ca	tctgtcg	480
cttttattac	acactca	ttt	ttt	ttt	caact	540
ccaagtactc	ttt	ttt	ttt	ttt	ccgtc	600
tcccgag	aaattt	ttt	ttt	ttt	caaa	660
tattcgacta	attt	ttt	ttt	ttt	ccgg	720
taaattacat	aagt	ttt	ttt	ttt	ttt	780
atatatattt	tgtatgtat	ttt	ttt	ttt	ttt	840
gaagactcga	ctgaaatatt	at	ttt	ttt	ttt	900
gagaagagag	ttctgtgtt	ttt	ttt	ttt	ttt	960
taaaaaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	993

<210> 65
 <211> 689
 <212> DNA
 <213> Homo sapiens

<400> 65

gaattcggca	cgagctagg	tggcggtc	acttaagcct	cgaactcctg	gcctcaagca	60
------------	-----------	----------	------------	------------	------------	----

atcctcctgc	cttccttcc	caaagctatg	aaattgcaga	caggagccac	catgcctggc	120
tggttttgg	ggccatggc	aagtgcaggc	ttgtcagagg	aattggagaa	gcagggatta	180
gttagaaaa	cctctccact	tcttgtt	catgccaggt	agtgtttgt	acttcagaac	240
ccgcccattac	cttacctacc	tacatgtt	tgctcatttc	acctactgtc	ccctgctgt	300
tagggagtgc	cttgagggca	gagatcatgt	tagtttgtt	cccttctgt	tacagagggt	360
ggagcccagt	acctggcaca	gctgaaggag	gaatgtgt	ctgctgtc	tgtattcca	420
gttactcctt	gttacactct	agccaagaca	aggaacctcc	ttatgagatg	tcatcttctg	480
agctctctt	atggagggaa	taccacgggt	atgattgaat	atgaaaagtc	ttggcacagt	540
ggctcacacc	tgtaatccca	acactttgg	tggccgaggt	gggaggattg	cttgaagcca	600
ggcattgaga	ccatccttgg	ccacccaaacg	agaccccatc	tctacaaaaaa	aagaaaaaca	660
aaacccaaaaaa	aaaaaaaaaa	aaactcgta				689

<210> 66
 <211> 942
 <212> DNA
 <213> Homo sapiens

<400> 66						
gaattccagg	actgctggga	ccccctgcac	ctcctggcca	cgagagatc	ctgctccag	60
ggaccagcgt	ctgggtggga	cacagttcac	tcctctctcc	acttcatgtt	cttttcttc	120
agcagatggc	tcaagttcct	tgttttctc	cttgcttct	gacagccgta	gcttctgaaa	180
cctgccattt	ttgggtctcct	gatgcctgt	ttcctaattt	tcctgactgt	gtctctagg	240
aagcattaag	tctgaactga	tttattaggg	aacttcagaa	agttaaacac	acaaaaccct	300
ttctttgact	cctatcttaa	ggacatggag	atacagttac	atataatttat	acacaaggat	360
attcatatgg	caaaaaacggg	gagaaggcac	aatttaagag	cccaatgggg	actgggattg	420
tgtatgcate	tgtacaatga	catgttata	agtcatctg	ttttttataa	aactttttag	480
tgacatggga	aaatacacaag	aatgtaaaga	atttaaaaag	cagcgtacaa	aacmataatat	540
gtgatccaat	ttgtggtgga	aatattttat	ctatataatat	ccattttaaa	mcaccaarga	600
aaatacacag	ttaacagtag	ttatctttgg	aaggcaggat	tataagtgt	cttagtttc	660
ttccttccac	ttttgttacc	gatatcagaa	aaaaactctg	tctctacgaa	aataaaaataa	720
aatgaaataa	aataaaaatta	gtgggtgca	gtggctcatg	cctgttgct	cagctcctca	780
ggaggctgag	gcgggagaat	cacttggggcc	cggcaggtcg	aggctgcagt	gagctaggat	840
cgtgccactg	cactctagcc	tgggtggcag	caagaccttgc	tctcaaaaaaa	aaaaaaaaaa	900
aaaggaattc	gatatcaagc	ttatcgatac	cgtcgacctc	ga		942

<210> 67
 <211> 2309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (13)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (652)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (677)
 <223> n equals a,t,g, or c

<400> 67

gttaagagag	aangtgtgaa	gtcacctgtc	tgttctagtc	attccaaatgg	acattgtact	60
ggcccaggag	gaaagaacca	gatgtgttg	tccagtcac	caaagcaagt	ctctagcaca	120
aagcccggtc	cactgaactg	cccttctcca	gtgcctcctc	tgtatttgg	tgtatgtgga	180
ctcccccttc	ccacggatgt	gatccagcat	agttacggc	aatcgaagc	agggtacaaa	240
caagagggtgg	agcagctacg	tcgacagggt	cgtgasttca	gatgaggctg	gacatccgtc	300
actgtctgtc	ccctccagca	gagccccca	tggactatga	ggatgattt	acatgtttga	360
aggagtcaga	tggcagtgt	actgaggatt	ttggctctga	tcacagtcaa	gactgcctt	420
cagaagcaag	ctgggaacct	gttgataaga	aaagagactga	ggtaactcgc	tgggttccag	480
accatatggc	atcacactgc	tataactgtg	actgtgaatt	ctgggtggcc	aaacgaagac	540
accattgcag	aaattgtggg	aatgtatttt	gtgctggatg	ctgccccctg	aagctgccc	600
ttccctgatca	gcaactctat	gaccaggatc	tcgtctgtaa	ctcatgttac	gnaacacatt	660
caagtctctc	gtgccanggg	aactcatgag	ccaaacagctg	aagaacccca	ttgctacagc	720
ttcccaggatg	atgcccgggg	gaaacctgtc	caatttttagc	aggtttaag	ggaggatctt	780
cttcagggtgt	agtttggaaag	gttccttggt	gtggctcatg	aaatcacaga	gctcagagat	840
accatcttga	gaaatccctcc	ttggatcat	gaaactggag	cagagaatt	gcaattttagc	900
aggagggtcct	ctactggtga	taccctcacc	ttggggtaat	ggtccctaacc	cagacccagg	960
gtctggaaag	cttaatgttg	agttggtgac	tccagcctct	ttctcttgg	ggtcacaaga	1020
tgtatgattgc	gtagatgttg	cctggtgcaa	agtgcuccaa	acagaatag	aaaggcatat	1080
gtataacc	actccaagtg	ataaccagac	ccatctctcc	tccaccttga	caaaggcaga	1140
ttatagata	caaggttagg	attcctgtcc	tatggat	gaactatac	ctgtacctct	1200
gtgctctgt	tctgcatgaa	ggctcagcct	ttagaggcac	tccttctagt	tgcatttagt	1260
ctgtctttct	gtggagttt	gtttgaagac	tggctcagca	agtggaggtt	tcaatgtatt	1320
tttcagggtgg	ctcatcagcc	agcattggtg	aatattcagt	ttagggaaac	agttcttaggg	1380
agttagacat	ttttgggagc	agaggaaaac	tctgtgtatg	ttcggtcctg	gcaaacattg	1440
agttatttg	agctgtgaag	gcagtcgtct	ctgttacaca	gtggcagctc	ttgagttatg	1500
cactgtgaag	aatgagaagg	gaaaagcaaa	aattatcctt	gtgaaatatc	tgctgattgt	1560
gccctactct	ttgcacctga	ctttccttag	ttgtcctgg	gctaacacag	gagctacacc	1620
ttgatcctct	cctggcatga	aaataaaaca	aagggtttcg	ttgttgg	tccattgcc	1680
atttccccca	tgttgtctt	cccttggctg	atgcctcctc	tgggtcacat	tgcttcttat	1740
cctgaacact	tgacaccctt	agggtagaat	ttagcgttt	gtttttacct	cctagcatat	1800
gctgtttgg	atgtgagggt	ttcagtagaa	atgtgtctgt	ctatttctgt	gcacttaaca	1860
atggaaaccc	aacagaagag	aataaagct	tgataccaaa	attggaaag	aacatgtgc	1920
catttggacc	aaacgttgg	ggttttaaa	aaattttatt	ttgtttttt	gtttttgtt	1980
ttgttttttt	tcatcttaat	atgtaccagt	ggcacttaac	caaaagatac	agtatgtatag	2040
ccatgtatct	gtctacttag	cgtggctgtt	ttgaggact	gtcccatcag	tgaacaaact	2100
gcatggcctt	ggagagagac	tctggctct	ttgctcagat	gtgttcatca	aataactcc	2160
tcagagctgt	tgtgggtgt	agtgcacatg	tgtggccaaa	aatccaaact	gtgcagttgc	2220
gttgtgacaa	acatgcaatg	tgctgtaaaa	attcaataca	gtttaataa	aatctctata	2280
ttaqtaaaaa	aaaaaaaaaa	aaactcqaq				2309

```
<210> 68
<211> 814
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (421)
<223> n equals a,t,g, or c
```

```

<400> 68
tacgagtttt tttttttttt ttagccata attacaaaaa acattagtgc aggacaccat 60
tttaaaaaac tatttaaaat agtcttcaga gaaaaaaatat taagtattac agtttaggag 120
tatattgact ttggggccaac ggattccaat attttacaaa aaggcaatat ccacgcaaca 180
tattccagat tcggggtgtg gagaagctgc agggctttag gtgactctat cacaactgtc 240
ttccgtacgg aggagccact gccaactgtg tgacgagaaa tacttaagca cgtgcttcat 300
tgctccactg ccacaggtgg atatttcagg ggaattatta ttaatttcaa agttttttta 360

```

aaargytatg	ataagtaaat	aaaagttaatg	gtaggaktca	cggtcggaga	gcttatcgcc	420
naagtcttc	tatagccttc	ccccggaaagc	cccagttcag	gcatcggta	cccgaaagtgt	480
caccctctga	tctttcccccc	atccccatctg	aggaagttaa	agagatccct	cacaggtacc	540
gtggctctcg	gtgcctctgc	acttccaaca	gccgggtcgg	gcccaggaga	ctcgctccga	600
cctccaccac	aatggcggcc	agtgtggcc	gcgcaaccag	aagtgcggcc	gcfgcacctga	660
cccagttcc	gcctgcacct	agagctcagc	gcaccagccc	ggctcagcca	gacgaaggca	720
aacgaagaga	tgcggatccc	tggaggactg	gccccaccgt	gaacaaaaca	ggaagcattc	780
caggaagact	gcgggggtgg	gctcgtgcgc	aatc			814

<210> 69
<211> 788
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (370)
<223> n equals a,t,g, or c

<400> 69						
gaattcggca	cgaggcaatt	ttcaatgaac	cttgaatgg	aggaagaatt	gaagaagaaa	60
tcaagcatt	tttgccttgc	agaaggcagc	tgctgtatg	gcaggaggct	gaaatggaca	120
tggcctggca	gaagagtatt	atgggggtgt	tgtgttgtga	gccatctggc	ctgtacaatt	180
tggagaaaca	atactttttt	ttttcttctc	tgcaagctgg	gcttcctgtg	attgtgtcct	240
caggctgcac	aaaaatagcg	tatggcttg	ctgtgtattc	accttcatct	taaaatagct	300
agaacatttt	cccttcttctt	ttaaaaatgtt	tttaaaatga	gggtagact	ctttaggaa	360
aaggtagaan	tcttaataac	agtactcatg	ttgacaaacc	tttctcgta	aaattcctat	420
gtaatcaaga	ctcttattaa	atatgaacaa	atgtatgtt	tggaaatattaa	tgtttaccct	480
caaggtaaaa	gctgaaatgg	atttataaag	aattattttta	aacagcaata	atgtttgagg	540
ggtgggggaa	gtgagaaaaaa	tgaaatttttta	aatcacatgt	ttatgactat	gaagctagac	600
ttaaaaata	ggtcagttag	ggtatgactc	ttataataca	aaagtttatt	tggtatacaa	660
aggatttt	gctaattgtat	tttttaattta	tattcactaa	tacttgtaaa	agatcattca	720
atttataaaag	tttccaaaat	aaacctgttt	aaagtgtcaa	aaaaaaaaaa	aaaaaaaaaa	780
aaactcga						788

<210> 70
<211> 791
<212> DNA
<213> Homo sapiens

<400> 70						
gaattcggca	cgagctcaag	gctaaaatct	tgatctctcc	tgaatatgag	gagggtgttt	60
aggcatgtt	tggggattgg	attaatagt	ttaaaaaatt	tgtatttca	caaaaatagc	120
atgtacccat	cacccaaact	cagcagctt	caagaagctt	ttcttttttt	ctttcttatt	180
ttaaaaatc	ctttaacctt	atgtatgtt	tatactttt	ttaaaaatgt	aaaaatcatg	240
taaccttagg	atttttatgtt	ttaatgtt	gtttcacaaa	tttccatctt	tagaagaca	300
aaagggtcac	atattggctg	tctccttcaa	ctatactttc	ttcagtataa	aatatgttta	360
ccatggttgt	cattatcgag	cacgtaactg	catgttagac	tctatgtaa	gtgtttaca	420
taatcat	aagctcacta	aggcccttagg	agtaattt	atcctcccat	caaaaaggta	480
agtgaaatgt	taacctgaag	tttgactact	ttaggtctct	gagctagtaa	gtacaatagc	540
caggtttcaa	accaagatcc	ttttaactgc	agcacctgtg	ccttatctgg	tagcgtcatc	600
ttggttcata	catttaaaaa	agagttatct	atgtgcgggg	tgccctggt	catgcctgt	660
atcccagcac	tttggggaggc	cgaggaggc	ggatcaccag	gtcaggagtt	tgagactgac	720
caataagggt	aaatcctgtc	tctactaaaa	aaaaaagggg	gggcccgtac	ccaatcgccc	780
aaaaagatcg	t					791

<210> 71		
<211> 804		
<212> DNA		
<213> Homo sapiens		
<400> 71		
gaattcggca cgagcggcac gagcttggaaa tggcgtcttc tgcataacac tcatccatcc	60	
ttcaaggctt actctctcat cacagcttgc gactctcca ctttttgaac tgggtttcc	120	
cattcccagt tcacagagcc ctttctcatt gaactattt tctgagttcc ctctccggaa	180	
acatgagcca tgccttagagt agccacccat tagtgagtga cagctctgtg ctggatgcac	240	
ataaaatggtc tcccttaact gccatgagsc ctaaagaagg tttgctacag ctatttaca	300	
gatggggaaa actgacagag agatattaaat gaattgcccac catgcaaaata tgtgctgagt	360	
cttggattttt catctttatc gtgactccac ggagacccac cctctaagac cagagccagt	420	
gtccttattca tctttgtct ctgcagcgtt cagcatggca ctgtcttggc ttacaaaatc	480	
tgctctatgc ttgctgactg ctgaatgaat gaatgaatga ataggtatgc acaaagaatg	540	
ttttagaatgt ttctcagaca ggctgagaaa aaacacaacg aaacattatt tccgtttggaa	600	
aagttttttt atttttgtgt tcagttactga agtaaaacaa aaatctgaat aacagctgca	660	
ccgttaaaaaaa tgaaaattacc aatatatggaa ctctaggcat catgcatata taatttttg	720	
tagataactt ttcttctcat tttccttctc attctttca tctttttctt tttgttttag	780	
aaaaaaaaaaaaaaa aaaaaaaaaac tcga	804	
<210> 72		
<211> 783		
<212> DNA		
<213> Homo sapiens		
<400> 72		
gaattcggca cgagctaaaaa cttacaatga catgttgggtt cttgctctgt aagctccaag	60	
gcattttttt tttcagttttt aattcaagtgc ttctaaaaag tattttgggt acaaccagaa	120	
ctctctctgc tccttggattt ggagtcagtg tgaaaggaac acagtggct ctggggtcag	180	
ctagacctgg atgtggatca cagctcacct cttcattggg aggcctcagg caagttat	240	
gccaaacctca cctacaaaag catgatgcata agctcwttc agtttagttg tggatatcag	300	
agcatatgtt tacaatgcctt gccatagtgta gtgcctggcc cttggcagac tgcataatgg	360	
agctatggag cagcagcggg agtaatattttt ttatcttagac cttatctgtc cttttaaact	420	
cagttcagat tccttctcctt ttttaaattttt ctgcaacctg attttacctg cccctgcctc	480	
caagttgtgt tatcagtttag cctctgaaca attcatttag caatttttaat tatatattgc	540	
ttcttgacac tgctttgtgt tctttttttttt tctgttcaaa atacgtactt ggttgc	600	
cctgagtgct gttaatttcctt gctctaaacgg actaaagttt tttgaaggca ggacttagtt	660	
ttatgcattttt cacacagtctt ggtgccttac atgttactac tcacaaaactt ttttgc	720	
aaattttagaa acttcacacg cattcataag aaatcaataaa aaaaaaaaaaaaaactcg	780	
tag	783	
<210> 73		
<211> 1523		
<212> DNA		
<213> Homo sapiens		
<220>		
<221> SITE		
<222> (1)		
<223> n equals a,t,g, or c		
<220>		
<221> SITE		
<222> (8)		

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (15)

<223> n equals a,t,g, or c

<400> 73

nggggggncc	ccccnntttt	ttttttttt	ttttttttt	ttcagttcta	ctattattta	60
tttttttaaa	tattttcaa	aaaatataat	ttttttacaa	tattttcaac	ttaaacacta	120
ttcacactga	acacgtatgg	cagcttaacc	tacccaaata	tgaagtttaa	gaagccaaaa	180
ctgttctagc	tttgttaaaa	gttgtgctgc	agactctcg	gatggtaac	aaagcaagga	240
aaagcaccac	tcaaatacata	atgttacagt	atcttgc	agctggatta	tgggttggta	300
ttggtcata	gttagactcc	atacaggcat	agctatgatg	cagtgaatcc	cttagaagtt	360
acaattctca	aattacatac	tccctcagat	gtaacattag	aactcaata	ttctaacaat	420
aacataccag	aaaaggctgg	actggcactc	atctgctgac	taacttgc	cctcagtaat	480
atgacatact	tgccttaac	aaattatctc	aaattaacta	acagacctc	agaaaatgg	540
gattctttt	gatggggaca	taatcaaatt	taagtctgag	aaatatgc	aacagttgg	600
actcaaattt	aatgtactga	ttttaaagg	tagacattaa	caagtgatag	attagcctca	660
aaaaaaagaca	atttggtaag	gtttaggtct	tttaatttgg	tgcttg	caacttgact	720
ggtgc	tttgc	tttgc	tttgc	tttgc	tttgc	780
tttttgc	tttttgc	tttttgc	tttttgc	tttttgc	tttttgc	840
caaaaaactt	ggcaatgcat	aagtgtaca	cagtgacaag	agagcttt	caattaagtc	900
ttctaatact	gccttcacag	tgtggaaatt	gtgctacatc	cacccaaaga	ggggccccgtc	960
tactcaaata	tttccgtact	tcacccagg	aacaaactcc	tttgcattt	gattcagatt	1020
gctcttgacc	acaagatctt	ccagagaaga	gccatca	ataacaaggt	cattaaactg	1080
gtcttgatt	tggccatag	tttgcggag	atctcgagct	ggaataaaacc	attcatgctc	1140
ttcttcctct	tccagcattt	tttgcggag	tttgcggag	tttgcggag	tttgcggag	1200
ctcttcct	tgtctgttga	attcttctc	atttccatc	cacatgtact	ctgcaatgg	1260
attgtcatct	tcatgagaat	gaccgttaat	aatcacatct	tcattgtatg	tgcttggct	1320
agtactgtg	cgacttggat	tttgcggat	tttgcggat	tttgcggat	tttgcggat	1380
acagcagcgg	ggacggcagc	caacgaatcc	tgtccgc	cgccgatctc	cacaggcagc	1440
ggcgctcccc	cgctcgacgt	gcttcg	cgccgcctcc	cttctccgg	acgcgtggc	1500
ggacgcgtgg	ggggacgcgt	gggg				1523

<210> 74

<211> 758

<212> DNA

<213> Homo sapiens

<400> 74

gaattcgca	cgagac	asgg	tttcac	cttgc	aggta	ttgtctcaat	ctcttgcac	60
cgtgatctgc	ctgc	ctgc	ctcc	ccact	gtgt	ccactgtg	ccactgtg	120
cggc	tttt	tttt	tttt	ccagg	gtgc	gtgc	gtgc	180
acaa	acac	acag	cctt	ctgg	ctgg	gcaatt	ctcag	240
caag	ttc	actac	gac	ctgg	ctgg	ctgc	ccc	300
tgt	ttt	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	360
ata	aaat	ataata	gtt	tttgc	tttgc	tttgc	tttgc	420
aat	atg	tcag	tttgc	tttgc	tttgc	tttgc	tttgc	480
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	540
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	600
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	660
tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	tttgc	720
tctcaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	aaaaaaa	758

<210> 75

<211> 1096
 <212> DNA
 <213> Homo sapiens

<400> 75

ccccacggct	cccatggcct	cttcctgcgc	taccgtgtgg	aggccctaac	cctgcgtggc	60
atcaatagct	tccgcccaga	caagtatgac	ctgggtggcag	tgggcaaggc	tttggagggc	120
atgttccgca	agctcaacca	cctcctggag	cgccctgcacc	agtcccttctt	cctctacttg	180
ctccccggcc	tctcccgctt	cgtctccatc	ggcctctaca	tgcccgtgt	cggcttcttg	240
ctcctggtcc	ttggtctcaa	ggctctgaa	ctgtggatgc	agctgcata	ggctggaatg	300
ggccttgagg	agcccggggg	tgcccctggc	cccaagtgtac	cccttcccc	atcacagggt	360
gtggggctgg	cctcgctcg	ggcacctctg	ctgatctcac	aggccatggg	actggccctc	420
tatgtcctgc	cagtgtggg	ccaacacgtt	gccaccacagc	acttcccagt	ggcagaggct	480
gaggctgtgg	tgctgacact	gctggcgatt	tatgcagctg	gcctggccct	gccycacaat	540
acccacccggg	ttgtaagcac	acaggccca	gacaggggct	ggatggact	gaagctggta	600
gccctgatct	acctagcact	gcagctggc	tgcatcgccc	tcaccaactt	ctcaactggc	660
ttcctgctgg	ccaccacat	ggtgcccaact	gctgcgcttg	ccaagctca	tgggccccgg	720
accctctatg	ctgcccgtct	ggtgctgacc	agcccgccag	ccacgctcct	tggcagcctg	780
ttcctgtggc	gggagctgca	ggagggccca	ctgtcaactgg	ccgagggtct	gcagctttc	840
ctggcagcgc	tagcccgagg	tgtgctggag	caccacacta	cggcgcctg	ctcttccac	900
tgctgtccct	gggcctctac	ccctgctggc	tgctttctg	gaatgtgctc	ttctggaagt	960
gagatctgcc	tgtccggct	gggacagaga	ctccccaaagg	accccattct	gcctccttct	1020
ggggaaataaa	atgagtgtct	gtttcagcar	mwaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1080
aaaaaaaaagg	gcggcc					1096

<210> 76
 <211> 1230
 <212> DNA
 <213> Homo sapiens

<400> 76

cacgagtgcc	gctaacccttc	ttcatccctt	ggtggcaaag	tagaaagatt	ccagaattaa	60
ctcgacctt	ctaaagacct	gggctcaag	gcaactggc	ctgactgagc	acccactatg	120
tgccaggcac	tgtgctgaat	gcattagatc	atcaattatg	aatttgacac	caaggacactg	180
gtgtgcctgg	gcctgagcag	catcggttgc	gtctggtacc	tgctgaggaa	gcactggatt	240
gccaacaacc	tttttggcct	ggccttctcc	cttaatggag	tagactcct	gcacctcaac	300
aatgtcagca	ctggctgcat	cctgctggc	ggacttctca	tctacgatgt	cttctggta	360
tttggcacca	atgtgatgg	gacagtggcc	aagtcttcg	aggcaccaat	aaaattggtg	420
tttccccagg	atctgctgga	gaaaggcctc	gaagcaaaaca	actttccat	gctgggactt	480
ggagatgtcg	tcattccagg	gatcttcatt	gccttgcgc	tgcgcttga	catcagcttg	540
aagaagaata	cccacaccta	cttctacacc	agctttgcag	cctacatctt	cggcctggc	600
cttaccatct	tcatcatgca	catcttcaag	catgctcagc	ctgcccctc	atacctggtc	660
cccgctgca	tcgggtttcc	tgtcctggtg	gcgctggca	agggagaagt	gacagagatg	720
ttcagttatg	aggagtcaaa	tcctaaggat	ccagcggcag	tgacagaatc	caaagaggga	780
acagaggccat	cagcatcgaa	ggggctggag	aagaaagaga	aatgatgcag	ctggtgcccc	840
agccctctcg	ggccagacca	gacagatggg	ggctggccc	acacaggcgt	gcaccggtag	900
agggcacagg	aggccaaggg	cagctccagg	acagggcagg	gggcagcagg	atacctccag	960
ccaggccct	gtggcctctg	tttccttc	cctttcttgg	ccctcctctg	ctcctcccc	1020
caccctgcag	gcaaaagaaa	cccccagtt	ccccctccc	cgggagccag	gtgggaaaag	1080
tgggtgtgat	tttagattt	tgtattgtgg	actgattttg	cctcacatta	aaaactcatc	1140
ccatggccag	ggcgggcccac	tgtgctctg	aaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaaaaaaaa	ggggaggggc				1230

<210> 77
 <211> 911
 <212> DNA

<213> Homo sapiens

<400> 77

tcgacccacg	cgtccgtctt	cctaaaaggg	atgccctcca	aagaaatttt	aaaagaatct	60
tatcaagggg	ccctggagaa	gaaaggatg	tgagggtcaa	gtcacaactt	tgaggggaaa	120
tagaaagagg	gctccttct	gagaaagaag	aatttcaaag	agtccaagag	aacccaaaat	180
tcaggaccca	ggagggtaag	cattcctgtt	tttgcagct	tcacagacca	tttgagttag	240
tgggttttc	aggtgacatt	taaatgaaca	aataatatcc	atgtctcagg	gtcagaaaatg	300
gtactttgca	actgattctg	tccctctga	gaggctctg	caagactgag	agggtgggat	360
gacttaatga	acattaaaaa	caatgttatt	aggckggata	ttgtggcaca	tgccctgtaat	420
tctagcactt	tgggargctg	aggtggcag	gcccargart	tcaagaccag	tctgggcaac	480
atggtgagac	cctgtatcta	ataaaaatac	aaaaatttag	ccaggcatgg	tggcacacac	540
ctggagtc	agctactcg	gagactgagg	tggaaagatc	acctgagctc	aggaagtgcg	600
ggctgcagtg	agccaagatt	gcactactgc	actctagcct	acatggatag	gagtgagacc	660
tgttgaaaaa	acaaaaaaca	atcaaaaaca	aaaaaaaaca	acccacacaa	tgttattttt	720
aaaatactga	ggggagagaa	gttggggaaa	aaaagggaaa	acctaaaact	ctccataatc	780
ctaccatcag	aaaattacac	taatgtgata	agtacttcc	tccctctga	atctccaatt	840
ccattacttg	tagtaaatat	gaatcttatt	ccacaaactc	agacatgcaa	aaaaaaaaaa	900
aaaggcgcc	c					911

<210> 78

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (324)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (438)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (484)

<223> n equals a,t,g, or c

<400> 78

accgcagggg	ctccggacc	ctgactctgc	agccgaaccg	gcacggttc	gtggggaccc	60
aggcttgc	aa	agtgacggtc	attttcttt	tctttctccc	tcttgcgtcc	120
atggctctgg	g	g	gctacccggg	tctttgtcgc	gatggtagcg	180
gccccaccc	t	t	ctgtgggaa	cttgcactc	gcccgtctcg	240
tcaagaacct	g	g	ctggggcg	ctggggggca	cccaaggctc	300
gcccgcgcgg	g	g	ctggggcg	ctggggggca	tgcaatcagc	360
gcctgtaccc	t	t	gaatctgt	cccngggcg	gaataagtac	420
gcctaattcc	cc	cc	aa	aa	cagaccattg	480
tttnttcc	cccccncc	ccggaaagggg	aaaccccccgg	ggcggttttc	acaattcttt	488

<210> 79

<211> 753

<212> DNA

<213> Homo sapiens

<220>
 <221> SITE
 <222> (745)
 <223> n equals a,t,g, or c

<220>
 <221> SITE
 <222> (752)
 <223> n equals a,t,g, or c

<400> 79

gaattcggca	cgagcggcg	gggtccatcc	accgggtga	gcaggccaa	ggcagcgggg	60
gcccacaccc	ctcacacgc	aaactggct	cttctgtca	ctgggtctg	aaacccaaatc	120
cagagcagcc	tgtggcctgt	aaagcatata	tttctaatga	ctgcagactg	gtgggatcat	180
aggagccttc	tgaatgacca	ggactgctt	cttggagct	gatgaaaatg	tactcttta	240
gcgtttaga	aatcacttgt	tttattttgt	ttcttggcc	aagctggtc	tagtgtttct	300
tttgctggga	atagacttgc	aaaagtgt	cttctatcaa	gaaacaaaac	tgcccttgca	360
gaaatttcag	gtctttgtt	aagcctgtat	tggcttaag	gtgcagttt	ttttaaatta	420
ttatattatag	aaagaatcta	taaattctt	ggaaagtgt	ttataagctt	taataattac	480
attgagctgc	acctcagtgg	tgtgtcat	acatgcagt	gggttaat	ctgaggcctc	540
agatgacttt	gtgcctttt	gaataaaagg	taaaaataaac	tctccagag	taagagctgt	600
atcgtgaatt	gtcataactaa	ttattgaggg	ggactttagt	gcttttattt	aatggagtgc	660
tttacaattt	ttattttaa	atggggttgg	gatccttgg	atatttcaat	aaaatttgata	720
aaatataaaa	aaaaaaaaaa	aggngggccg	cnc			753

<210> 80
 <211> 2138
 <212> DNA
 <213> Homo sapiens

<400> 80

tggatgtat	tggactcccc	tttcccacgg	atgtgatcca	gcataaggta	cgccaaatcg	60
aaggcaggta	caaacaagag	gtggagcagc	tacgtcgaca	ggtgcgtgac	tcagatgagr	120
ctggacatcc	gtcactgctg	tgccccctca	gcagagcccc	catggactat	gaggatgatt	180
ttacatgttt	gaaggagtca	gatggca	atactgagga	ttttggctct	gatcacagtg	240
aagactgcct	ttcagaagca	agctggaaac	ctgttgataa	gaaagagact	gaggtgactc	300
gctgggttcc	agaccatatg	gcatcacact	gctataactg	tgactgtgaa	ttctgggttgg	360
ccaaacgaag	acaccattgc	agaaaattgt	ggaatgtt	ttgtgttgg	tgctgcccacc	420
tgaagctgcc	cattcctgt	cagcaactct	atgaccctgt	tctcgctgt	aactcatgtt	480
acgraacaca	ttcaagtctc	tcgtgccagg	gaactcatga	gccaacagct	gaagaaaccc	540
attgctacag	cttccagttt	aatgggggg	agaaaacctgt	ccaattttag	caggttgaa	600
gggaggatct	tcttcagttt	tagtttggaa	ggtcccttgg	tgtggctcat	gaaatcacag	660
agctcagaga	taccatctt	agaaaatctc	cttggatata	tgaaaactgga	gcagaggaat	720
tgcaatttag	caggaggctc	tctactgg	ataccctcac	cttgggtttaa	tgtccttaac	780
ccagaccctag	ggtctggaa	cttaatgtt	agttggtgac	tccagctct	ttctccttgg	840
ggtcacaaga	tgtatgttgc	gttagatgtt	ccttggtgca	agtccccaa	acagcaatag	900
aaaggcataat	gtataacaa	actccaaatg	ataaccagac	ccatctctcc	tcaccccttga	960
caaaagcaga	tttagtgtat	caaggtagga	attctgtatc	tatttgagat	gaactatatac	1020
ctgtacccct	gtgtctgtt	tctgtat	ggctcagcct	ttagaggcac	tccttcttagt	1080
tgcatttagta	ctgtctttt	gtggagttt	gttgaagac	tggctcagca	agttggaggtt	1140
tcaatgtatt	tttcagttt	ctcatcagcc	agcattgg	aatattcagt	tttagggggaaac	1200
agttcttaggg	agttagacat	ttttgggg	agaggaaaac	tctgctgtat	ttcggtctgt	1260
gcaaaccattt	agttat	agctgtgaag	gcagtcgtct	ctgttacaca	gtggcagctc	1320
tttaggttat	cactgtgaag	aatggagaagg	gaaaagcaaa	aattatccctt	gtaaatatac	1380
tgctgatgtt	gcctactct	ttgcaccc	ctttccat	ttgtcccttgg	gctaacacag	1440
gagctacacm	ttgatcctct	cctggcat	aaataaaaaca	aaggtttctg	ttgttgggt	1500
tccattggccc	attccccca	tgttgcctt	cccttggct	atgcctcc	tgggtcacat	1560

tgcttcttat cctgaacact tgacacccctg agggtagaaat ttagcggttg gtttttacct	1620
cctagcatat gctgtttgggt atgtgagggt ttcagttacaa atgctgtgt ctatttctgt	1680
gcacttaaca atggAACCCa aacagaagag aataaAGCCT tgataccaaa attgggaaag	1740
aacatgtgtc cattggacc aaacgttgggtt ggTTTTAAaa aaattttatt ttgttttttt	1800
gtttttgttt ttgtttttt tcatcttaat atgtaccagt ggcacttaac caaaagatac	1860
agtgtatag ccatgtatct gtctacttag cgtggctgtt ttgagggact gtcccatcag	1920
tgaacaaact gcatggcctt ggagagagac tctgggctct tggctcagat gtgttcatca	1980
aatactccctt tcagagctgt tgggggtgtt agtgcacatga tggccaaa aatccaaact	2040
gtgcagttgc gttgtgacaa acatgcaatg tgctgtaaaa attcaataca gttaaataaa	2100
aatctctata ttagtaaaaaa aaaaaaaaaa aaactcga	2138

<210> 81	
<211> 1327	
<212> DNA	
<213> Homo sapiens	
<220>	
<221> SITE	
<222> (5)	
<223> n equals a,t,g, or c	
<220>	
<221> SITE	
<222> (7)	
<223> n equals a,t,g, or c	
<220>	
<221> SITE	
<222> (9)	
<223> n equals a,t,g, or c	
<220>	
<221> SITE	
<222> (10)	
<223> n equals a,t,g, or c	
<220>	
<221> SITE	
<222> (1205)	
<223> n equals a,t,g, or c	
<400> 81	
aaccnangnn taccggtccg gaattcccg gtcggaccca cgcgtcccg gccccgcacg	60
cacgtcgagc gggggagccgg cgctgcctgt ggagatccgc ggaggccgac aggattcggt	120
ggctgcccgc cccgctgctg tgcattgggt taaaaacgcac aaccaacatc accatgaaa	180
gatccaagtc gcagcagttac tagcccaagc atcatcaatg aagatgtgtat tattaaacgg	240
cattctcatg aagatgacaa tccatttgca gactacatgt ggatggaaaa tgaagaagaa	300
ttcaacagac aaatagaaga ggagttatgg gaagaagaat ttattgaacg ctgtttccaa	360
gaaatgctgg aagaggaaga agagcatgaa tggtttattc cagctcgaga tctcccacaa	420
actatggacc aaatccaaga ccagtttaat gaccttggta tcagtgtatgg ctcttctctg	480
gaagatctt tggcaagag caatctgaat ccaaattgca aggagttgt tcctggggtg	540
aagtacgaa atatttgagt agacggggcc ctctttgggt ggatgttagca caatttccac	600
actgtgaagg cagttttaga agacttaatt gtaaaagctc tcttgcact gtgttacact	660
tatgcattgc caaagtttttt gtttagtctt catgcttaat aaaagtgcgtg agactgttac	720
taagtaaaaa gctgtcaaac attactgaa aatagaattt gccccatggc ttgtatgtgaa	780
gacagcaagg aaagaagcac cagtcagtt gtgcacaaagc accaaattaa aagacctaaa	840
ccttacccaa ttgtctttt ttgaggctaa tctatcactt gttaatgtct aaactttaaa	900

atcagtacat ttaattttag	ttccaactgt	taagcatatt	tctcagactt	aaatttgatt	960
atgtccccat caaaaagaat	ctccatttc	tgaaggctcg	ttagttatt	tgagataatt	1020
tgttaaaggc aagtatgtca	tattactgag	gctacaagtt	agtcagcaga	tgagtgcag	1080
tccagcctt tctggatgt	tattgttagr	aatattgagt	tctaattgtta	catctgaggr	1140
agtatgtaat tgagrattgt	aacttctaag	gggttactg	catcatrgct	atgcctgtat	1200
ggrgntctwa ccataatgacc	mataccamcc	cwtaatccca	gctgraccaa	rgrtacckgt	1260
aaccattwwg gatttgaggg	gkggccttc	ccyggcyttg	kttwaccmt	ccacggagaa	1320
tctggca					1327

<210> 82
<211> 758
<212> DNA
<213> Homo sapiens

<400> 82					
gaattcggca cgagacacgg	tttcaccctg	ttggccagga	tggtctcaat	ctcttgacct	60
cgtgatctgc ctgcctcgcc	ctcccaaagt	gctaggatta	caggcatgag	ccactgtgcc	120
cggcctttgt ttttgagac	cttttttatt	ttgttgcac	ccaggctgaa	gtgcagtggc	180
acaaacacag ttcactacag	ccttgaccc	ctgggctcaa	gcaattctgc	ctcagtccca	240
caagtaggtg ggcttacaaa	tgcacagcat	gacacctggc	ttatttttgt	attttgcgtg	300
tgtgtgtgtg agccactgcg	caggccttgg	gcagctttct	tgatctctgt	tacctcatct	360
ataaaatgt gataataata	gcttctccct	tattggggaa	ttgtaatgtat	taaatgagat	420
aacatgtaaa atgctcgt	caggccaggc	atgtggctc	acgcttgcaa	tcccagcact	480
ttggggaggt gaggctgcta	gatctcttga	ggcagcagt	taagaccagc	ctggccaata	540
tggtgaaacc ctgtgtctac	caaaaaatac	agaaagtca	ccaggcatgg	tggtgcatgc	600
ctgtggtccc agctactca	aggctgaggt	gggagaatca	cttgagcccg	ggagacagaa	660
gttgaagtga gccaagatgg	cggccactgca	ctctagcatg	ggctacagag	tgagagcctc	720
tctcaaaaaaa aaaaaaaaaa	aactcgta				758

<210> 83
<211> 47
<212> PRT
<213> Homo sapiens

<400> 83					
Met Gly Ser Cys Ala Ala Phe Leu Leu Ala Ala Leu Ser Leu Leu Gly					
1	5	10	15		
Val Leu Gly Gly Tyr Pro Gly Arg Arg Ala Phe Ile Leu Pro Asn Arg					
20	25	30			
Arg Ser Leu Arg Gln Trp Leu Glu Val Ser Leu Gly Pro Val Ser					
35	40	45			

<210> 84
<211> 37
<212> PRT
<213> Homo sapiens

<400> 84					
Met Asn Glu Ala Pro Pro Leu Ser Ser Ser Ile Cys Phe Ile Leu					
1	5	10	15		
Phe Tyr Phe Phe Pro Leu Leu Pro Pro Leu Ser Ser Thr Cys Phe Ser					

20

25

30

Lys Gly Asn Arg His
35

<210> 85
<211> 52
<212> PRT
<213> Homo sapiens

<400> 85
Met Cys Gln Asn Arg Glu Ser Val Leu Val Leu Leu Ile Glu Ser Asn
1 5 10 15
Met Phe Ser Phe Tyr Leu Leu Phe Ser Phe Tyr Ile Val Phe Ser Phe
20 25 30
Phe Ile Val Leu Arg Pro Leu Pro Arg Asn Glu Ser Ile Lys Lys Ile
35 40 45
Gly Val Ile Phe
50

<210> 86
<211> 25
<212> PRT
<213> Homo sapiens

<400> 86
Met Thr Val Leu Ala Lys Arg Leu Val Leu Phe Leu Gly His Ile Phe
1 5 10 15
Leu Leu Leu Cys Val Arg Ile Leu Asp
20 25

<210> 87
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 87
Met Ala Ala Arg Ser Ala Leu Ala Leu Leu Leu Leu Pro Val Leu
1 5 10 15
Leu Leu Pro Val Gln Ser Arg Ser Glu Pro Glu Thr Thr Ala Pro Thr
20 25 30
Pro Thr Pro Ile Pro Gly Gly Asn Ser Ser Xaa Ser Arg Pro Leu Pro
35 40 45

Ser Ile Glu Leu His Ala Cys Gly Pro Tyr Pro Lys Pro Gly Leu Leu
 50 55 60

Ile Leu Leu Ala Pro Leu Ala Leu Trp Pro Ile Leu Leu
 65 70 75

<210> 88

<211> 37

<212> PRT

<213> Homo sapiens

<400> 88

Met Cys Tyr Ile Pro Gly Ser Thr Gly Gly Gln Cys Trp Pro Trp Cys
 1 5 10 15

Trp Cys Trp Leu Cys Arg Glu Ala Leu Glu Trp Leu Cys Gly Ala Val
 20 25 30

Ser Ala Gly Pro Ala

35

<210> 89

<211> 43

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 89

Met Leu Leu Arg Ile Ile His Leu Val Ile Phe Phe Ile Asn Phe Ser
 1 5 10 15

Thr Ser Val Val Ile Val His Tyr Asn Val Leu Asn Tyr Arg Cys Leu
 20 25 30

Leu Lys Cys Arg Cys Arg Val Xaa Lys Tyr Ser

35 40

<210> 90

<211> 59

<212> PRT

<213> Homo sapiens

<400> 90

Met Gln Asn Cys Leu Gly Ser Leu Ile Pro Gly Val Leu Phe Ser Leu
 1 5 10 15

Leu Leu Leu Pro Ser Met Phe Asn Ile Ile Leu Thr Gln Ser Lys Tyr
 20 25 30

Gly Glu Asn Ser Tyr Pro Ala Cys Phe Tyr Ser Ser Asn Phe Pro
 35 40 45

Val Ser Ala Ile Thr Phe Leu Val Gly Val Val
 50 55

<210> 91
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 91
 Met Val Val Ile Val Leu Thr Ser Asn Val Cys Ile Cys Gly Tyr Val
 1 5 10 15
 Val His Ser Ala Leu Ile Pro Arg Arg Gln Gly Leu Phe Leu Phe Leu
 20 25 30
 Phe Leu Val Met Phe Tyr Phe Ser Ile Ala Phe Asn Arg Ile Thr Lys
 35 40 45
 Gly Thr Leu Ser Ser Gln
 50

<210> 92
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 92
 Met Val Ala Gln Leu Val Gly Cys Val Val Ser Cys Leu Phe Val Leu
 1 5 10 15
 Leu Arg Phe Leu Ile Ser Thr Phe Gly Ile Met Ser Phe Asn Gly Phe
 20 25 30
 Val Ile Phe Val Thr Val Leu Ala Ala Tyr Asn Phe Ser Ala Gly Ala
 35 40 45
 Phe Thr
 50

<210> 93
 <211> 155
 <212> PRT
 <213> Homo sapiens

<400> 93
 Met Trp Pro Gln Glu Ala Trp Val Cys Ile Leu Val Leu Leu Gly Thr
 1 5 10 15
 Arg Val Gly Leu Cys Val Gly Asp Ser Leu Ala Pro Gln Ala Ser Leu
 20 25 30
 Ser Tyr Cys Tyr Ile Leu Lys Val Pro Leu Arg Pro Lys Pro Leu Trp
 35 40 45

Gln Leu Ser Asn Glu Ser Ile Cys Ser Glu Tyr Arg Val Glu Gly Gly
 50 55 60

Gln Gly His Gln Glu Leu Arg Met Phe Leu Arg Leu Met Arg Pro Arg
 65 70 75 80

Tyr Trp Val His Gly Gly Pro Arg Ser Leu Cys Asp Ser Cys Ser Leu
 85 90 95

Leu Pro Pro Cys Leu Asp Pro Ala Ser Ala Gln Lys Ala Asn Ser Leu
 100 105 110

Asp Ser Lys Gly Leu Pro Arg Pro Ile Ser Met Ser Cys Ser Cys Gln
 115 120 125

Leu Pro Val Pro Ser Leu Asp Leu Ser Ser Cys Leu Ala Pro Ser Leu
 130 135 140

Pro Thr Pro His Ile Phe Thr Asn Lys Arg Lys
 145 150 155

<210> 94

<211> 60

<212> PRT

<213> Homo sapiens

<400> 94

Met Ser His His Ala Arg Pro Tyr Lys Ala Phe Arg Ile Val Ser Cys
 1 5 10 15

Tyr Phe Tyr Leu Phe Ile Ile Val Val Val Ile Ile Leu Leu Tyr
 20 25 30

Pro Ile Ser Gln Gly Trp His Val Ala Asn Ile Val Phe Leu Lys Asn
 35 40 45

Ile Ser Asp His Ile Leu Val Leu Leu Lys Thr Phe
 50 55 60

<210> 95

<211> 70

<212> PRT

<213> Homo sapiens

<400> 95

Met Trp Phe Glu Ile Leu Pro Gly Leu Ser Val Met Gly Val Cys Leu
 1 5 10 15

Leu Ile Pro Gly Leu Ala Thr Ala Tyr Ile His Arg Phe Thr Asn Gly
 20 25 30

Gly Lys Glu Lys Arg Val Ala His Phe Gly Tyr His Trp Ser Leu Met
 35 40 45

Glu Arg Asp Arg Arg Ile Ser Gly Val Asp Arg Tyr Tyr Val Ser Lys
 50 55 60

Gly Leu Glu Asn Ile Asp
65 70

<210> 96
<211> 36
<212> PRT
<213> Homo sapiens

<400> 96
Met Val Phe Leu Leu Leu Leu Phe Gly Phe Phe Phe Asp Gly Ser
1 5 10 15

Leu Arg Ser Pro Leu Leu Leu Ile Ile His Leu Gly Pro Ala Pro Thr
20 25 30

Phe Leu Gln Ile
35

<210> 97
<211> 59
<212> PRT
<213> Homo sapiens

<400> 97
Met Leu Cys Gln Thr Ile Pro Leu Cys Asn Arg Leu His Ile Val Phe
1 5 10 15

Met Ile Leu Ile Lys Leu Tyr Val Glu Thr Glu Cys Glu Val Lys Ser
20 25 30

Glu His Lys Lys Ile Met His Asp Glu Ile Ala Tyr His Phe Ile Gly
35 40 45

Tyr Leu Leu Cys Ile Tyr Thr Leu Arg Pro Leu
50 55

<210> 98
<211> 43
<212> PRT
<213> Homo sapiens

<400> 98
Met Ser Val Ser Ser Asn Leu Trp Gln Thr Leu Ile Leu Leu Ser
1 5 10 15

Leu Trp Phe Cys Leu Phe Pro Glu Cys His Ile Val Gly Ile Ile Gln
20 25 30

Leu Cys Arg Leu Phe Arg Leu Pro Ser Phe Thr
35 40

<210> 99
<211> 31

<212> PRT
 <213> Homo sapiens

<400> 99
 Met Cys Cys Arg Ala Gly Gly Ser Gln Ser Pro Gln Val Met Val Val
 1 5 10 15
 Leu Ile Ile Ile Leu Gly Pro Trp Gly Gly Val Arg Ile Asp Ala
 20 25 30

<210> 100
 <211> 180
 <212> PRT
 <213> Homo sapiens

<400> 100
 Met Tyr Ser Cys Leu Leu Leu Pro Asp Leu Leu Tyr Leu Thr Leu Ser
 1 5 10 15
 Pro Leu Val Val Ala Met Leu Leu Thr Pro His Phe Asn Val Ala Asn
 20 25 30
 Pro Gln Asn Leu Leu Ala Gly Leu Trp Leu Glu Asn Glu His Ser Phe
 35 40 45
 Thr Leu Met Ala Pro Glu Arg Ala Arg Thr His His Cys Gln Pro Glu
 50 55 60
 Glu Arg Lys Val Leu Phe Cys Leu Phe Pro Ile Val Pro Asn Ser Gln
 65 70 75 80
 Ala Gln Val Gln Pro Pro Gln Met Pro Pro Phe Cys Cys Ala Ala Ala
 85 90 95
 Lys Glu Lys Thr Gln Glu Gln Leu Gln Glu Pro Leu Gly Ser Gln
 100 105 110
 Cys Pro Asp Thr Cys Pro Asn Ser Leu Cys Pro Ser His Thr Gln Leu
 115 120 125
 Thr Lys Ala Asn Thr Leu Ser Leu Phe Phe Phe Ser Phe Phe Leu
 130 135 140
 Ser Arg Val Ser Leu Leu Ser Pro Arg Leu Glu Cys Asn Gly Arg Ile
 145 150 155 160
 Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Asn Ser Pro Val
 165 170 175
 Ser Ala Ser Arg
 180

<210> 101

<211> 211
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (45)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (195)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 101
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15

Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30

Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Xaa Asp Leu Met
 35 40 45

Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60

Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80

Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95

Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110

Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125

Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140

Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160

Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175

Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190

Glu Asp Xaa Tyr Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205

Asp Glu Leu
 210

<210> 102
 <211> 621
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 102
 Met Gly Leu Leu Ser Asp Pro Val Arg Arg Arg Ala Leu Ala Arg Leu
 1 5 10 15

Val Leu Arg Leu Asn Ala Pro Leu Cys Val Leu Ser Tyr Val Ala Gly
 20 25 30

Ile Ala Trp Phe Leu Ala Leu Val Phe Pro Pro Leu Thr Gln Arg Thr
 35 40 45

Tyr Met Ser Glu Asn Ala Met Gly Ser Thr Met Val Glu Glu Gln Phe
 50 55 60

Ala Gly Gly Asp Arg Ala Arg Ala Phe Ala Arg Asp Phe Ala Ala His
 65 70 75 80

Arg Lys Lys Ser Gly Ala Leu Pro Val Ala Trp Leu Glu Arg Thr Met
 85 90 95

Arg Ser Val Gly Leu Glu Val Tyr Thr Gln Ser Phe Ser Arg Lys Leu
 100 105 110

Pro Phe Pro Asp Glu Thr His Glu Arg Tyr Met Val Ser Gly Thr Asn
 115 120 125

Val Tyr Gly Ile Leu Arg Ala Pro Xaa Ala Ala Ser Thr Glu Ser Leu
 130 135 140

Val Leu Thr Val Pro Cys Gly Ser Asp Ser Thr Asn Ser Gln Ala Val
 145 150 155 160

Gly Leu Leu Leu Ala Leu Ala Ala His Phe Arg Gly Gln Ile Tyr Trp
 165 170 175

Ala Lys Asp Ile Val Phe Leu Val Thr Glu His Asp Leu Leu Gly Thr
 180 185 190

Glu Ala Trp Leu Glu Ala Tyr His Asp Val Asn Val Thr Gly Met Gln
 195 200 205

Ser Ser Pro Leu Gln Gly Arg Ala Gly Ala Ile Gln Ala Ala Val Ala
 210 215 220

Leu Glu Leu Ser Ser Asp Val Val Thr Ser Leu Asp Val Ala Val Glu
 225 230 235 240

Gly Leu Asn Gly Gln Leu Pro Asn Leu Asp Leu Leu Asn Leu Phe Gln
 245 250 255

Thr Phe Cys Gln Lys Gly Gly Leu Leu Cys Thr Leu Gln Gly Lys Leu
 260 265 270
 Gln Pro Glu Asp Trp Thr Ser Leu Asp Gly Pro Leu Gln Gly Leu Gln
 275 280 285
 Thr Leu Leu Leu Met Val Leu Arg Gln Ala Ser Gly Arg Pro His Gly
 290 295 300
 Ser His Gly Leu Phe Leu Arg Tyr Arg Val Glu Ala Leu Thr Leu Arg
 305 310 315 320
 Gly Ile Asn Ser Phe Arg Gln Tyr Lys Tyr Asp Leu Val Ala Val Gly
 325 330 335
 Lys Ala Leu Glu Gly Met Phe Arg Lys Leu Asn His Leu Leu Glu Arg
 340 345 350
 Leu His Gln Ser Phe Phe Leu Tyr Leu Leu Pro Gly Leu Ser Arg Phe
 355 360 365
 Val Ser Ile Gly Leu Tyr Met Pro Ala Val Gly Phe Leu Leu Val
 370 375 380
 Leu Gly Leu Lys Ala Leu Glu Leu Trp Met Gln Leu His Glu Ala Gly
 385 390 395 400
 Met Gly Leu Glu Glu Pro Gly Gly Ala Pro Gly Pro Ser Val Pro Leu
 405 410 415
 Pro Pro Ser Gln Gly Val Gly Leu Ala Ser Leu Val Ala Pro Leu Leu
 420 425 430
 Ile Ser Gln Ala Met Gly Leu Ala Leu Tyr Val Leu Pro Val Leu Gly
 435 440 445
 Gln His Val Ala Thr Gln His Phe Pro Val Ala Glu Ala Glu Ala Val
 450 455 460
 Val Leu Thr Leu Leu Ala Ile Tyr Ala Ala Gly Leu Ala Leu Pro His
 465 470 475 480
 Asn Thr His Arg Val Val Ser Thr Gln Ala Pro Asp Arg Gly Trp Met
 485 490 495
 Ala Leu Lys Leu Val Ala Leu Ile Tyr Leu Ala Leu Gln Leu Gly Cys
 500 505 510
 Ile Ala Leu Thr Asn Phe Ser Leu Gly Phe Leu Leu Ala Thr Thr Met
 515 520 525
 Val Pro Thr Ala Ala Leu Ala Lys Pro His Gly Pro Arg Thr Leu Tyr
 530 535 540
 Ala Ala Leu Leu Val Leu Thr Ser Pro Ala Ala Thr Leu Leu Gly Ser
 545 550 555 560

Leu Phe Leu Trp Arg Glu Leu Gln Glu Ala Pro Leu Ser Leu Ala Glu
 565 570 575

Gly Trp Gln Leu Phe Leu Ala Ala Leu Ala Gln Gly Val Leu Glu His
 580 585 590

His Thr Tyr Gly Ala Leu Leu Phe Pro Leu Leu Ser Leu Gly Leu Tyr
 595 600 605

Pro Cys Trp Leu Leu Phe Trp Asn Val Leu Phe Trp Lys
 610 615 620

<210> 103

<211> 287

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (263)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 103

Met Ala Leu Leu Pro Ile Phe Phe Gly Ala Leu Arg Ser Val Arg Cys
 1 5 10 15

Ala Arg Gly Lys Asn Ala Ser Asp Met Pro Glu Thr Ile Thr Ser Arg
 20 25 30

Asp Ala Ala Arg Phe Pro Ile Ile Ala Ser Cys Thr Leu Leu Gly Leu
 35 40 45

Tyr Leu Phe Phe Lys Ile Phe Ser Gln Glu Tyr Ile Asn Leu Leu Leu
 50 55 60

Ser Met Tyr Phe Phe Val Leu Gly Ile Leu Ala Leu Ser His Thr Ile
 65 70 75 80

Ser Pro Phe Met Asn Lys Phe Phe Pro Ala Ser Phe Pro Asn Arg Gln
 85 90 95

Tyr Gln Leu Leu Phe Thr Gln Gly Ser Gly Glu Asn Lys Glu Glu Ile
 100 105 110

Ile Asn Tyr Glu Phe Asp Thr Lys Asp Leu Val Cys Leu Gly Leu Ser
 115 120 125

Ser Ile Val Gly Val Trp Tyr Leu Leu Arg Lys His Trp Ile Ala Asn
 130 135 140

Asn Leu Phe Gly Leu Ala Phe Ser Leu Asn Gly Val Glu Leu Leu His
 145 150 155 160

Leu Asn Asn Val Ser Thr Gly Cys Ile Leu Leu Gly Gly Leu Phe Ile
 165 170 175

Tyr Asp Val Phe Trp Val Phe Gly Thr Asn Val Met Val Thr Val Ala

180

185

190

Lys Ser Phe Glu Ala Pro Ile Lys Leu Val Phe Pro Gln Asp Leu Leu
 195 200 205

Glu Lys Gly Leu Glu Ala Asn Asn Phe Ala Met Leu Gly Leu Gly Asp
 210 215 220

Val Val Ile Pro Gly Ile Phe Ile Ala Leu Leu Leu Arg Phe Asp Ile
 225 230 235 240

Ser Leu Lys Lys Asn Thr His Thr Tyr Phe Tyr Thr Ser Phe Ala Ala
 245 250 255

Tyr Ile Phe Gly Leu Gly Xaa Tyr His Leu His His Ala His Leu Gln
 260 265 270

Ala Cys Ser Val Met Arg Ser Gln Ile Leu Arg Ile Gln Arg Gln
 275 280 285

<210> 104

<211> 31

<212> PRT

<213> Homo sapiens

<400> 104

Met Ser Arg Leu Leu Leu Phe Gly Arg Leu Cys Ser Leu Trp Cys
 1 5 10 15

Leu Ser Trp Leu Tyr Ser Thr Asp Thr Arg Pro Leu Leu Arg Gly
 20 25 30

<210> 105

<211> 77

<212> PRT

<213> Homo sapiens

<400> 105

Met Leu Pro Arg Leu Val Leu Asn Ser Trp Ala Cys Pro Pro Gln Pro
 1 5 10 15

Pro Lys Val Leu Glu Leu Gln Ala Cys Ala Thr Ile Ser Ser Leu Ile
 20 25 30

Thr Leu Phe Leu Met Phe Ile Lys Ser Ser His Pro Leu Ser Leu Ala
 35 40 45

Glu Ala Ser Gln Glu Gly Gln Asn Gln Leu Gln Ser Thr Ile Ser Asp
 50 55 60

Pro Glu Thr Trp Ile Leu Phe Val His Leu Asn Val Thr
 65 70 75

<210> 106
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 106
 Met Val Phe Leu Val Phe Tyr Val Leu Arg Ala Leu Lys Cys Asn Ser
 1 5 10 15
 Ser Tyr His Ser Cys Thr Asn Val Leu Thr Gln Ile Ala Ser Gln Ile
 20 25 30
 Asp Lys Thr Leu Asn Asn Phe Ser Leu Lys Lys Cys
 35 40

<210> 107
 <211> 41
 <212> PRT
 <213> Homo sapiens

<400> 107
 Met Asn Pro Cys Leu Ser Ile Ile Phe Leu Leu Thr Pro Val Leu Leu
 1 5 10 15
 Ser His Pro Leu Gln Ser Leu His Phe Leu Leu Lys Val Asp Leu Asp
 20 25 30
 Phe Ser Leu Ser Cys Ser Ile Cys Thr
 35 40

<210> 108
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 108
 Met Thr Val Tyr Leu Leu Lys Thr His Pro Cys Phe Phe Val Ala Tyr
 1 5 10 15
 Gln Met Gln Val Ala Leu Ile Ile Leu Leu Pro Gly Leu Arg Asn Ser
 20 25 30
 Lys Thr Val Thr Met Pro Leu Ser Pro Ala Leu Leu Pro Thr Leu Leu
 35 40 45
 Phe Phe Pro Ser Pro Thr Pro Phe Phe His Pro Phe Leu Ser Val Leu
 50 55 60
 Cys Cys Phe Lys Tyr
 65

<210> 109
 <211> 48
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 109

Met His Ala Thr Cys Thr Arg Thr Trp Arg Ala Gln Val Ser Leu His
 1 5 10 15

Gln Pro Pro Cys Ser Arg Asp Trp Lys Ile Cys His Leu Leu Val Val
 20 25 30

Leu Ser Leu Pro Pro Pro Thr Pro Ala Arg Xaa Pro Glu Phe Leu Asn
 35 40 45

<210> 110

<211> 192

<212> PRT

<213> Homo sapiens

<400> 110

Met Ile Arg Asn Asp Gln Asp Ser Leu Met Gln Leu Leu Gln Leu Gly
 1 5 10 15

Leu Val Val Leu Gly Ser Gln Glu Ser Gln Glu Ser Asp Leu Ser Lys
 20 25 30

Gln Leu Ile Ser Val Ile Ile Gly Leu Gly Val Ala Leu Leu Val
 35 40 45

Leu Val Ile Met Thr Met Ala Phe Val Cys Val Arg Lys Ser Tyr Asn
 50 55 60

Arg Lys Leu Gln Ala Met Lys Ala Ala Lys Glu Ala Arg Lys Thr Ala
 65 70 75 80

Ala Gly Val Met Pro Ser Ala Pro Ala Ile Pro Gly Thr Asn Met Tyr
 85 90 95

Asn Thr Glu Arg Ala Asn Pro Met Leu Asn Leu Pro Asn Lys Asp Leu
 100 105 110

Gly Leu Glu Tyr Leu Ser Pro Ser Asn Asp Leu Asp Ser Val Ser Val
 115 120 125

Asn Ser Leu Asp Asp Asn Ser Val Asp Val Asp Lys Asn Ser Gln Glu
 130 135 140

Ile Lys Glu His Arg Pro Pro His Thr Pro Pro Glu Pro Asp Pro Glu
 145 150 155 160

Pro Leu Ser Val Val Leu Leu Gly Arg Gln Ala Gly Ala Ser Gly Gln
 165 170 175

Leu Glu Gly Pro Ser Tyr Thr Asn Ala Gly Leu Asp Thr Thr Asp Leu
 180 185 190

<210> 111
 <211> 71
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (64)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 111
 Met Ala His Val Val Val Ala Arg Asn Glu Cys Leu Ile Arg Ala Phe
 1 5 10 15

Leu Phe Leu Leu His Cys Val Ser Leu Leu Pro Ser Pro Gly Glu Val
 20 25 30

Asn Ile Arg His Thr Leu Phe Thr Val Glu Glu Arg Leu Thr Thr Pro
 35 40 45

Arg Ala Leu Lys Leu Ser Leu Ser Leu Ile Val Ser Leu His Ala Xaa
 50 55 60

Cys Arg Lys Gln Glu Cys Ser
 65 70

<210> 112
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 112
 Met Arg Leu Thr Glu Lys Asp Thr Val Leu Phe Thr Lys Gly Val Leu
 1 5 10 15

Phe Leu His Leu Phe Ile Asn Ala Leu Phe Trp Tyr Cys Lys Phe Gly
 20 25 30

His Asn Phe
 35

<210> 113
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 113
 Met Thr Ser Val Ser Thr Gln Leu Ser Leu Val Leu Met Ser Leu Leu
 1 5 10 15

Leu Val Leu Pro Val Val Glu Ala Val Glu Ala Gly Asp Ala Ile Ala

20

25

30

Leu Leu Leu Gly Val Val Leu Ser Ile Thr Gly Ile Cys Ala Cys Leu
 35 40 45

Gly Val Tyr Ala Arg Lys Arg Asn Gly Gln Met
 50 55

<210> 114
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 114
 Met Asn Ser Phe Trp Ser Lys Leu Leu Val Leu Pro Leu Leu Ala Pro
 1 5 10 15

Leu Ser Met Ala Arg Ala Ser Ala Cys Gln Arg Trp
 20 25

<210> 115
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 115
 Met Met Arg Leu Leu Asp Leu Arg Ile Phe Leu Met Ile His His Lys
 1 5 10 15

Ala Lys Ser Trp Glu Ser His Thr
 20

<210> 116
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 116
 Met Pro Leu Ser Leu Leu Ile Val Trp Lys Leu Glu Leu Cys Val
 1 5 10 15

Gly Ser Ala Leu Val Leu Ile His Thr Gln Arg Arg Tyr Ile Ile Leu
 20 25 30

Gln Val

<210> 117
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 117
 Met Leu Leu Ala Thr Leu Leu Leu Leu Gly Gly Ala Leu Ala

1

5

10

15

His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30

Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45

Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Thr Lys Arg Val
 50 55 60

Gln Gln Met Leu Leu Phe His Ser Tyr Gly Ile Ala Gln
 65 70 75

<210> 118

<211> 43

<212> PRT

<213> Homo sapiens

<400> 118

Met Thr Gly Val Phe Lys Leu Pro Leu Leu Phe Trp Val His Glu Ala
 1 5 10 15

Ser Val Gly Gly Cys Pro Tyr Val Lys Leu Val Glu Phe Glu Glu Met
 20 25 30

Leu Thr Leu Tyr Gly Ile Leu Leu Ile Leu Phe
 35 40

<210> 119

<211> 45

<212> PRT

<213> Homo sapiens

<400> 119

Met Gln Leu Ala Pro Phe Ile Ser Ile Pro Val Leu Ser Gly Thr Thr
 1 5 10 15

Pro Trp Thr Ala Val Phe Arg Ala Ser Ser Ile Cys Thr Pro Leu Leu
 20 25 30

Thr Leu Ser Ala Ala Gly Met Leu Val Glu Ser Ser Leu
 35 40 45

<210> 120

<211> 28

<212> PRT

<213> Homo sapiens

<400> 120

Met Pro Pro Leu Ser Asp Ile Leu Leu Thr Val Ala Val Val Ala Phe
 1 5 10 15

Glu Met Thr Gly His Ile Tyr Ile Trp Pro His Thr
 20 25

<210> 121
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 121
 Met Glu Leu Pro Cys Asp Cys Ser Lys Leu Leu Tyr Cys Lys Phe Ser
 1 5 10 15
 Val Trp His Leu Pro Val Asn Ala Met Lys Leu Leu Ile Ile Phe Leu
 20 25 30
 Lys Val Leu His Cys Leu Phe Phe Leu Leu Cys Lys Phe Leu Tyr
 35 40 45
 Thr Leu Ile Val Ile Leu Thr Asp Lys Tyr Ser Ile Leu Asn
 50 55 60

<210> 122
 <211> 86
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (68)
 <223> Xaa equals any of the naturally occurring L-amino acids

 <220>
 <221> SITE
 <222> (72)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 122
 Met Pro Val Ser Trp Gly Cys Pro Ser Lys Thr Pro Gln Thr Arg Ala
 1 5 10 15
 Tyr Thr Arg Cys Val Tyr Phe Leu Met Val Leu Glu Ala Gly Val Gly
 20 25 30
 Gly His Ser Val Ser Arg Val Gly Ser Leu Glu Val Pro Pro Trp Leu
 35 40 45
 Val Ala Ala Asn Asn Phe Pro His Leu Met Trp Ser Ser Phe Cys Val
 50 55 60
 Gly Pro His Xaa Val Phe Leu Xaa Asp Pro Ser Leu Pro Asp Pro Gly
 65 70 75 80
 Pro Pro Asn Asn Leu Thr
 85

<210> 123
 <211> 63

<212> PRT
 <213> Homo sapiens

<400> 123
 Met Cys Tyr Phe Leu Glu Ile Ser Leu Leu Met Val Phe Ala Leu Asn
 1 5 10 15
 Ile Lys Ala Ala Tyr Gly Cys Cys Asn Ile Asn Gly Thr Glu Val His
 20 25 30
 Arg Ala Lys Gly Pro Val Ser Val Pro Phe Pro Leu Ser Arg Pro Leu
 35 40 45
 Ser Gly Thr Pro Leu Leu Asp Arg Leu Arg Pro Phe Gln Thr Leu
 50 55 60

<210> 124
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 124
 Met Pro Leu Pro Ser Ser Phe Pro Leu Pro Val Phe Leu Ser Ser Cys
 1 5 10 15
 Pro Phe Leu Met Ser Val Ser Ile Gly Phe Leu Ile Leu Val Phe Asn
 20 25 30
 Val His Pro
 35

<210> 125
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 125
 Met Phe Ile Phe Cys Val Ser Leu Ala Phe Leu Pro Arg Phe Ile Ser
 1 5 10 15
 Pro Gln Ser Cys Glu Trp Ala Gly Leu Ser Leu Val Trp His His
 20 25 30

<210> 126
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 126
 Met Lys Asn Asn Thr Gln Lys Arg Leu Phe Leu Trp Gly Glu Leu Leu
 1 5 10 15

Leu Gln Asp Leu Ala Leu Ile Leu Tyr Leu Ser Ile Phe Leu Lys Ser
 20 25 30

Thr Leu Thr Asn Leu Asn Leu Phe
 35 40

<210> 127
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 127
 Met Leu Asn Val Phe Phe Ser Leu Ile Leu Phe Phe Ser Pro Asn Arg
 1 5 10 15

Ala Leu Pro Ala Ile Ser Ser Cys Ile Thr Phe
 20 25

<210> 128
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 128
 Met Arg Ala Val Gly Glu Arg Leu Leu Lys Leu Gln Arg Leu Pro
 1 5 10 15

Gln Ala Glu Pro Val Glu Ile Val Ala Phe Ser Val Ile Ile Leu Phe
 20 25 30

Thr Ala Thr Val Leu Leu Leu Leu Ile Ala Cys Ser Cys Cys Cys
 35 40 45

Thr His Cys Cys Cys Pro Glu Arg Arg Gly Arg Lys Val Gln Val Gln
 50 55 60

Pro Thr Pro Pro
 65

<210> 129
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 129
 Met Asp Pro Arg Arg Val Thr Ala Cys Cys His Val Trp Thr Val Gly
 1 5 10 15

Leu Phe Cys Ile Trp Ala Val Gly Leu Ser Cys Ser Leu Ser Leu Ser
 20 25 30

His Val Ile Val Trp Leu Ser Gly Ala Gly Cys Thr Leu Ile Cys Glu
 35 40 45

Asp Asn Pro Phe Leu Leu Leu Phe Ser Gln Tyr Leu Gln Pro His His
 50 55 60

Pro Glu Ile Met Lys Pro Phe Ile Leu Gly His Lys Ser Ser Asn Gly
 65 70 75 80

Gly Leu Ser Pro Pro Ser Ala
 85

<210> 130

<211> 63

<212> PRT

<213> Homo sapiens

<400> 130

Met Phe Tyr Met Val Cys Val Leu Gly Ser Gly Ala Gln Pro Leu Ser
 1 5 10 15

Glu Leu Ala Tyr Leu Ala Lys Leu Pro Thr Leu Gln Val Gly Lys Tyr
 20 25 30

Asn Pro Leu Phe Asn Lys Ala His Pro Leu His Pro Val Leu Thr Thr
 35 40 45

Phe Cys Glu Cys Ala Val Ile Phe Ser Cys Ser Ile Ala Arg Trp
 50 55 60

<210> 131

<211> 54

<212> PRT

<213> Homo sapiens

<400> 131

Met Arg Phe Gln Ser Tyr Leu Trp Pro Ser Arg Ile Leu Val Gly Thr
 1 5 10 15

Tyr Cys Ile Ala Ala Glu Val Leu Phe Pro Ser Ala Leu Ala Ser Cys
 20 25 30

Gly Pro Val Trp Gln Gly Gly Ala Pro Thr Lys Ser Trp Gln Pro Gly
 35 40 45

Ala Lys Thr Ile Ile Pro
 50

<210> 132

<211> 40

<212> PRT

<213> Homo sapiens

<400> 132

Met Arg Arg Trp Ala Gly Phe Gly Lys Ser Pro Gln Phe Trp Trp Thr

1	5	10	15
Gly Ile Leu Val Ala Leu Gly Ala Ala Leu Leu Gly Gly Pro Arg Leu			
20	25	30	
Gly Arg Arg Leu Thr Phe Gly Leu			
35	40		

<210> 133
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 133			
Met Ala Leu Ala Ile Phe Ile Pro Val Leu Ile Ile Ser Leu Leu Leu			
1	5	10	15
Gly Gly Ala Tyr Ile Tyr Ile Thr Arg Cys Arg Tyr Tyr Ser Asn Leu			
20	25	30	
Arg Leu Pro Leu Met Tyr Ser His Pro Tyr Ser Gln Ile Thr Val Glu			
35	40	45	
Thr Glu Phe Asp Asn Pro Ile Tyr Glu Thr Gly Glu Thr Arg Glu Tyr			
50	55	60	
Glu Val Ser Ile			
65			

<210> 134
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 134			
Met Gly Phe Leu Phe Leu His Ile Leu Pro Ser Ile Ile Asn Thr Arg			
1	5	10	15
Ser Ala Pro Gln Pro Thr Ser Cys Arg Met Gln Pro Glu Gln Gln Pro			
20	25	30	
His Ser Thr Leu Lys Pro Val Ile Leu Gly Met Met Ile Ile Ser			
35	40	45	

<210> 135
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 135			
Met Ser Gly Leu Val Gly Gly Ser Arg Cys Ser Lys Val Arg Phe			
1	5	10	15

Arg Cys Phe Asn Gly Asp Ser Leu Leu Val Leu Val Leu Gln His His
 20 25 30

Phe Arg Leu Cys Ser Trp Cys Leu Ala Pro Ser Leu Phe Leu Leu Leu
 35 40 45

Ser Cys Gln Val Val Ser Thr Met Met Glu Gln Asp Pro Val Ile Tyr
 50 55 60

Asp Asp Asp Asp Asp Leu Pro Asn Tyr Phe Ser Val
 65 70 75

<210> 136

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (32)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 136

Met Phe Leu Glu Leu Pro Met Gln His Ser Asp Val Leu Leu Phe Leu
 1 5 10 15

Val Cys Trp Lys Ala Met Gly Ser Lys Lys Ser Pro Ser His Phe Xaa
 20 25 30

Pro Glu Val Gly Gly Ile Xaa Pro Ser Phe Gly Met Leu Asn Val Thr
 35 40 45

Leu Leu Arg Ser Leu Thr
 50

<210> 137

<211> 54

<212> PRT

<213> Homo sapiens

<400> 137

Met Leu Val Leu Phe Pro Leu Leu Tyr Arg Gly Trp Ser Pro Val Pro
 1 5 10 15

Gly Thr Ala Glu Gly Gly Met Cys Cys Cys Cys Leu Cys Ile Ser Arg
 20 25 30

Tyr Ser Leu Leu Thr Ser Ser Gln Asp Lys Glu Pro Pro Tyr Glu Met
 35 40 45

Ser Ser Ser Glu Leu Ser
50

<210> 138
<211> 35
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (33)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 138
Met Thr Cys Tyr Glu Val Ile Leu Phe Phe Ile Lys Leu Phe Ser Asp
1 5 10 15

Met Gly Lys Tyr Lys Glu Cys Lys Glu Phe Lys Lys Gln Arg Thr Lys
20 25 30

Xaa Tyr Met
35

<210> 139
<211> 80
<212> PRT
<213> Homo sapiens

<400> 139
Met Lys Ala Gln Pro Leu Glu Ala Leu Leu Leu Val Ala Leu Val Leu
1 5 10 15

Ser Phe Cys Gly Val Trp Phe Glu Asp Trp Leu Ser Lys Trp Arg Phe
20 25 30

Gln Cys Ile Phe Gln Leu Ala His Gln Pro Ala Leu Val Asn Ile Gln
35 40 45

Phe Arg Gly Thr Val Leu Gly Ser Glu Thr Phe Leu Gly Ala Glu Glu
50 55 60

Asn Ser Ala Asp Val Arg Ser Trp Gln Thr Leu Ser Tyr Phe Glu Leu
65 70 75 80

<210> 140
<211> 67
<212> PRT
<213> Homo sapiens

<400> 140
Met Ala Ala Ser Val Gly Arg Ala Thr Arg Ser Ala Ala Ala His Leu
1 5 10 15

Thr Gln Leu Pro Pro Ala Pro Arg Ala Gln Arg Thr Ser Pro Ala Gln

20

25

30

Pro Asp Glu Gly Lys Arg Arg Asp Ala Asp Pro Trp Arg Thr Gly Pro
 35 40 45

Thr Val Asn Lys Thr Gly Ser Ile Pro Gly Arg Leu Arg Gly Trp Ala
 50 55 60

Arg Ala Glu
 65

<210> 141

<211> 50

<212> PRT

<213> Homo sapiens

<400> 141

Met Gly Trp Leu Cys Cys Glu Pro Ser Gly Leu Tyr Asn Leu Glu Lys
 1 5 10 15

Gln Tyr Phe Phe Phe Ser Ser Leu Gln Ala Gly Leu Pro Val Ile Val
 20 25 30

Ser Ser Gly Cys Thr Lys Ile Ala Tyr Gly Phe Ala Val Tyr Ser Pro
 35 40 45

Ser Ser
 50

<210> 142

<211> 54

<212> PRT

<213> Homo sapiens

<400> 142

Met Arg Arg Cys Val Arg His Val Leu Gly Ile Gly Leu Ile Val Leu
 1 5 10 15

Lys Asn Leu Tyr Phe His Lys Asn Ser Met Tyr Pro Ser Pro Lys Leu
 20 25 30

Ser Ser Phe Gln Glu Ala Phe Leu Phe Phe Leu Ile Leu Lys Asn
 35 40 45

Pro Leu Thr Leu Cys Ser
 50

<210> 143

<211> 49

<212> PRT

<213> Homo sapiens

<400> 143

Ile His Pro Ser Arg Ser Thr Leu Ser Ser Gln Leu Val Thr Leu Pro
 1 5 10 15

Leu Phe Glu Leu Val Phe Pro Ile Pro Ser Ser Gln Ser Pro Phe Ser
 20 25 30

Leu Asn Tyr Leu Ser Glu Phe Pro Leu Pro Glu His Glu Pro Cys Leu
 35 40 45

Glu

<210> 144

<211> 86

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 144

Met Thr Cys Cys Cys Leu Leu Cys Lys Leu Gln Gly Ile Phe Phe Phe
 1 5 10 15

Ser Phe Asn Ser Ser Val Leu Lys Ser Ile Leu Gly Thr Thr Arg Thr
 20 25 30

Leu Ser Ala Pro Trp Ile Gly Val Ser Val Lys Gly Thr Gln Trp Ala
 35 40 45

Leu Gly Ser Ala Arg Pro Gly Cys Gly Ser Gln Leu Thr Ser Ser Leu
 50 55 60

Gly Gly Leu Arg Gln Val Ile Cys Gln Pro His Leu Gln Lys His Asp
 65 70 75 80

Ala Lys Leu Xaa Ser Val
 85

<210> 145

<211> 57

<212> PRT

<213> Homo sapiens

<400> 145

Met His Lys Cys Asn Thr Val Thr Arg Glu Leu Leu Gln Leu Ser Leu
 1 5 10 15

Leu Ile Leu Pro Ser Gln Cys Gly Asn Cys Ala Thr Ser Thr Lys Arg
 20 25 30

Gly Pro Arg Leu Leu Lys Tyr Phe Arg Thr Ser Pro Gln Glu Gln Thr
 35 40 45

Pro Leu His Leu Asp Ser Asp Cys Ser
 50 55

<210> 146
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 146
 Met Ser His Cys Ala Arg Pro Leu Phe Phe Glu Thr Phe Phe Ile Leu
 1 5 10 15
 Leu Ser Pro Arg Leu Lys Cys Ser Gly Thr Asn Thr Val His Tyr Ser
 20 25 30
 Leu Asp Leu Leu Gly Ser Ser Asn Ser Ala Ser Val Pro Gln Val Gly
 35 40 45
 Gly Leu Thr Asn Ala Gln His Asp Thr Trp Leu Ile Phe Val Phe Cys
 50 55 60
 Val Cys Val Cys Glu Pro Leu Arg Arg Pro Trp Ala Ala Phe Leu Ile
 65 70 75 80
 Ser Val Thr Ser Ser Ile Lys
 85

<210> 147
 <211> 230
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (216)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 147
 Met Gly Leu Ala Leu Tyr Val Leu Pro Val Leu Gly Gln His Val Ala
 1 5 10 15
 Thr Gln His Phe Pro Val Ala Glu Ala Glu Ala Val Val Leu Thr Leu
 20 25 30
 Leu Ala Ile Tyr Ala Ala Gly Leu Ala Leu Pro His Asn Thr His Arg
 35 40 45
 Val Val Ser Thr Gln Ala Pro Asp Arg Gly Trp Met Ala Leu Lys Leu
 50 55 60
 Val Ala Leu Ile Tyr Leu Ala Leu Gln Leu Gly Cys Ile Ala Leu Thr
 65 70 75 80
 Asn Phe Ser Leu Gly Phe Leu Leu Ala Thr Thr Met Val Pro Thr Ala
 85 90 95
 Ala Leu Ala Lys Pro His Gly Pro Arg Thr Leu Tyr Ala Ala Leu Leu
 100 105 110

Val Leu Thr Ser Pro Ala Ala Thr Leu Leu Gly Ser Leu Phe Leu Trp
 115 120 125

Arg Glu Leu Gln Glu Ala Pro Leu Ser Leu Ala Glu Gly Trp Gln Leu
 130 135 140

Phe Leu Ala Ala Leu Ala Gln Gly Val Leu Glu His His Thr Thr Ala
 145 150 155 160

Pro Cys Ser Ser His Cys Cys Pro Trp Ala Ser Thr Pro Ala Gly Cys
 165 170 175

Phe Ser Gly Met Cys Ser Ser Gly Ser Glu Ile Cys Leu Ser Gly Leu
 180 185 190

Gly Gln Arg Leu Pro Lys Asp Pro Ile Leu Pro Pro Ser Gly Glu Ile
 195 200 205

Asn Glu Cys Leu Phe Gln Gln Xaa Lys Lys Lys Lys Lys Lys Lys Lys
 210 215 220

Lys Lys Lys Lys Gly Gly
 225 230

<210> 148

<211> 62

<212> PRT

<213> Homo sapiens

<400> 148

Gln Pro Ala Leu Leu Tyr Leu Val Pro Ala Cys Ile Gly Phe Pro Val
 1 5 10 15

Leu Val Ala Leu Ala Lys Gly Glu Val Thr Glu Met Phe Ser Tyr Glu
 20 25 30

Glu Ser Asn Pro Lys Asp Pro Ala Ala Val Thr Glu Ser Lys Glu Gly
 35 40 45

Thr Glu Ala Ser Ala Ser Lys Gly Leu Glu Lys Lys Glu Lys
 50 55 60

<210> 149

<211> 17

<212> PRT

<213> Homo sapiens

<400> 149

Gln Leu Ile Leu Ser Leu Leu Arg Gly Phe Cys Lys Thr Glu Arg Val
 1 5 10 15

Gly

<210> 150

<211> 15
 <212> PRT
 <213> Homo sapiens

<400> 150
 Met Ala Leu Gly Ala Arg Glu Leu Pro Gly Ser Leu Ser Arg Trp
 1 5 10 15

<210> 151
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 151
 Met Tyr Ser Phe Ser Val Leu Glu Ile Thr Cys Phe Ile Leu Phe Leu
 1 5 10 15
 Trp Pro Ser Trp Val
 20

<210> 152
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 152
 Met Lys Ile Lys Gln Arg Phe Ser Leu Leu Phe His Cys Pro Phe
 1 5 10 15
 Pro Pro Cys Cys Leu Ser Leu Gly
 20

<210> 153
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Asn Gly Leu Phe Gln Leu Glu Ile Ser His Lys Leu Trp Thr Lys
 1 5 10 15
 Ser Lys Thr Ser Leu Met Thr Leu Leu Ser Val Met Ala Leu Leu Trp
 20 25 30
 Lys Ile Leu Trp Ser Arg Ala Ile
 35 40

<210> 154
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Thr Pro Gly Leu Phe Leu Tyr Phe Val Cys Val Cys Val Ser His

1

5

10

15

Cys Ala Gly Leu Gly Gln Leu Ser
 20

<210> 155

<211> 103

<212> PRT

<213> Homo sapiens

<400> 155

Ile Arg His Glu Leu Gly Cys Ser Trp Arg Phe Arg Ala Val Lys Ala
 1 5 10 15

Ala Ser Ala Gln Gly Leu Phe Leu Ser Ala Pro Gly Pro Ala Ala Arg
 20 25 30

Arg Cys His Gly Val Val Arg Cys Phe Ser Thr Cys Arg Ala Leu Thr
 35 40 45

Ala Arg Cys Thr Gly Arg Val Pro Trp Glu Ala Cys Leu Tyr Ser Ser
 50 55 60

Glu Pro Pro Leu Thr Glu Thr Val Ala Arg Ser Val Ser Trp Thr Cys
 65 70 75 80

Glu Leu Ala Leu Thr Cys Tyr Ala Pro Arg Ala Leu Ser Gly Ala Pro
 85 90 95

Val Leu Cys Arg His Asp Val
 100

<210> 156

<211> 10

<212> PRT

<213> Homo sapiens

<400> 156

Val His Leu Gly Leu Pro Pro Gly Asp Ala
 1 5 10

<210> 157

<211> 18

<212> PRT

<213> Homo sapiens

<400> 157

Arg Ala Val Lys Ala Ala Ser Ala Gln Gly Leu Phe Leu Ser Ala Pro
 1 5 10 15

Gly Pro

<210> 158

<211> 28
 <212> PRT
 <213> Homo sapiens

<400> 158
 Gly Val Val Arg Cys Phe Ser Thr Cys Arg Ala Leu Thr Ala Arg Cys
 1 5 10 15
 Thr Gly Arg Val Pro Trp Glu Ala Cys Leu Tyr Ser
 20 25

<210> 159
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 159
 Ser Val Ser Trp Thr Cys Glu Leu Ala Leu Thr Cys Tyr Ala Pro Arg
 1 5 10 15
 Ala Leu Ser Gly Ala Pro Val
 20

<210> 160
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 160
 Asn Ser Ala Arg Ala Lys Thr Lys Glu Thr Phe Gly Gly
 1 5 10

<210> 161
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 161
 Phe Leu Ala Ile His Phe Pro Thr Asp Phe Pro Leu Lys Pro Pro Lys
 1 5 10 15
 Val Ala Phe Thr Arg Met Tyr Phe Pro Asn Ser Asn Ser Asn Gly Ser
 20 25 30
 Thr Cys Leu Asp Ile Leu Trp Ser Gln Trp Ser Pro Ala Leu
 35 40 45

<210> 162
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 162
 Leu Lys Pro Pro Lys Val Ala Phe Thr Arg Met Tyr Phe Pro Asn Ser

1 5 10 15

Asn Ser Asn Gly Ser Thr Cys
20

<210> 163

<211> 38

<212> PRT

<213> Homo sapiens

<400> 163

Ala Gly Ile Arg His Glu Gly Thr Thr Pro Cys Phe Cys Lys Gly Leu
1 5 10 15

Glu Asn Ile Tyr Pro Val Pro Phe Leu Phe Ala Phe Val Phe Ile Ile
20 25 30

Leu Ala Asn Tyr Trp Lys
35

<210> 164

<211> 44

<212> PRT

<213> Homo sapiens

<400> 164

His Ser Val Val Thr Val Val Ser Ser Thr Ile Ser Lys Val Leu Phe
1 5 10 15

Ser Ile Cys Ser Pro Leu Tyr Asp Ser Asn Pro His Asp Leu Leu Val
20 25 30

Asn Glu Val Ala Glu Ile Phe Thr Met Ser Ile Ile
35 40

<210> 165

<211> 38

<212> PRT

<213> Homo sapiens

<400> 165

Asn Ser Ala Arg Ala Gly Gln Asp Arg Arg Gly Pro Arg Val Thr Ala
1 5 10 15

Glu Gln Thr Leu Pro Ala Ala Ala Ala Ala Ala Leu Leu Arg Asp
20 25 30

Glu Pro Glu Arg Leu Ala
35

<210> 166

<211> 27

<212> PRT

<213> Homo sapiens

```

<220>
<221> SITE
<222> (6)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (12)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 166
Leu His His Pro His Xaa Leu Pro Leu Ala Leu Xaa Ile Gln Asn Phe
 1           5           10           15

Pro Gln Ser Leu Ala Ala Arg Leu Ser Trp Gly
 20           25

<210> 167
<211> 12
<212> PRT
<213> Homo sapiens

<400> 167
Met Ile Leu Val Phe Thr Val Lys Leu Ser Asn Val
 1           5           10

<210> 168
<211> 20
<212> PRT
<213> Homo sapiens

<400> 168
Thr Pro Val Ile Thr Val Leu Thr Ile Lys Phe Phe Gln Leu Ser Phe
 1           5           10           15

Phe Thr Glu Ile
 20

<210> 169
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 169

```

Gln Val Ala Glu Ser Ile Leu Leu Thr Asp Glu Gln Pro Lys Ala Gly
 1 5 10 15

Gln Thr Leu Leu Xaa Ala Leu Pro Ala Pro Xaa Ile Arg Asn Thr Gly
 20 25 30

Lys Glu Ile Gly Thr Ala Thr Gln Pro Ser
 35 40

<210> 170

<211> 7

<212> PRT

<213> Homo sapiens

<400> 170

Pro Gly Ser His Arg Glu Asp
 1 5

<210> 171

<211> 27

<212> PRT

<213> Homo sapiens

<400> 171

Glu His Val Trp Gly Phe Val Trp Val Thr Leu Trp Leu Pro Lys Pro
 1 5 10 15

Pro Phe Pro Thr Val Ile Ser Leu Lys Cys Leu
 20 25

<210> 172

<211> 8

<212> PRT

<213> Homo sapiens

<400> 172

Ile Arg His Glu Gly Ile Thr Gly
 1 5

<210> 173

<211> 9

<212> PRT

<213> Homo sapiens

<400> 173

Gly Phe Gly Leu Gly Asn Gly Ala Glu
 1 5

<210> 174

<211> 6

<212> PRT

<213> Homo sapiens

<400> 174

Arg Ile Tyr Met Leu Ile
 1 5

<210> 175

<211> 91

<212> PRT

<213> Homo sapiens

<400> 175

Thr His Ile Arg Lys Gln Tyr Ala Ala Val Pro Val Arg Ile Pro Gly
 1 5 10 15

Arg Pro Thr Arg Pro Pro Thr Arg Pro His Leu Pro Trp Leu Trp Gly
 20 25 30

Gly Ala Ser Met Pro Cys Val Ala Leu Gly Trp Ala Val Ala Pro His
 35 40 45

Cys Ser Ser Phe Leu Phe Thr Asn His Ala Ser Leu Leu Val Ser Ser
 50 55 60

Asp Glu Ile Thr Trp Ile Ser Trp Leu Pro Val Lys Asp Leu His Ala
 65 70 75 80

Tyr Tyr Gly Phe Phe Val Val Val Val Trp
 85 90

<210> 176

<211> 25

<212> PRT

<213> Homo sapiens

<400> 176

Val Pro Val Arg Ile Pro Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro
 1 5 10 15

His Leu Pro Trp Leu Trp Gly Gly Ala
 20 25

<210> 177

<211> 24

<212> PRT

<213> Homo sapiens

<400> 177

Val Ala Pro His Cys Ser Ser Phe Leu Phe Thr Asn His Ala Ser Leu
 1 5 10 15

Leu Val Ser Ser Asp Glu Ile Thr
 20

<210> 178

<211> 6

<212> PRT
 <213> Homo sapiens

<400> 178
 Met Leu Gln Tyr Leu Asn
 1 5

<210> 179
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 179
 Ile Arg His Glu Val Ser Leu Pro Ser Thr Phe Ser Val Leu His Arg
 1 5 10 15

Ile

<210> 180
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 180
 Arg Ala Arg Glu Gln Trp Gly Ser Gly Trp Ala His Ala
 1 5 10

<210> 181
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 181
 Met Leu Leu Thr Pro His Phe Asn Val Ala Asn Pro Gln Asn Leu Leu
 1 5 10 15

Ala Gly Leu Trp Leu Glu Asn Glu His Ser Phe Thr Leu Met Ala Pro
 20 25 30

Glu Arg Ala Arg Thr His His Cys Gln Pro Glu Glu Arg Lys Val Leu
 35 40 45

Phe Cys Leu Phe Pro Ile Val Pro Asn Ser Gln Ala Gln Val Gln Pro
 50 55 60

Pro Gln Met Pro Pro Phe Cys Cys Ala Ala Ala Lys Glu Lys Thr Gln
 65 70 75 80

Glu Glu Gln Leu Gln Glu Pro Leu Gly Ser Gln Cys Pro Asp Thr Cys
 85 90 95

Pro Asn Ser Leu Cys
 100

<210> 182
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 182

Arg	Met	Ser	Thr	Val	Ser	Pro	Leu	Trp	Leu	Gln	Lys	Glu	Gln	Glu	His
1				5					10					15	

Thr Thr Ala Ser Gln Lys Arg Glu Lys Ser Cys Ser Val Ser Phe Pro

20					25						30				
----	--	--	--	--	----	--	--	--	--	--	----	--	--	--	--

Leu Ser Gln Ile Ala Lys His Arg Phe Asn His Pro Lys Cys His Pro

35				40					45						
----	--	--	--	----	--	--	--	--	----	--	--	--	--	--	--

Ser Ala Val Gln Gln Pro Arg Lys Arg Pro Arg Arg Ser Ser Ser Lys

50			55			60									
----	--	--	----	--	--	----	--	--	--	--	--	--	--	--	--

Asn Leu Trp Ala Val Ser Ala Gln Ile Leu Ala Pro Ile Leu Cys Val

65		70			75			80							
----	--	----	--	--	----	--	--	----	--	--	--	--	--	--	--

Gln Ala Thr Leu Ser

85															
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<210> 183
 <211> 31
 <212> PRT
 <213> Homo sapiens

<400> 183

Gly	Leu	Trp	Leu	Glu	Asn	Glu	His	Ser	Phe	Thr	Leu	Met	Ala	Pro	Glu
1				5					10			15			

Arg Ala Arg Thr His His Cys Gln Pro Glu Glu Arg Lys Val Leu

20			25			30									
----	--	--	----	--	--	----	--	--	--	--	--	--	--	--	--

<210> 184
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 184

Glu	His	Thr	Thr	Ala	Ser	Gln	Lys	Arg	Glu	Lys	Ser	Cys	Ser	Val	Ser
1				5				10			15				

Phe Pro Leu Ser Gln

20															
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

<210> 185
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 185

Thr Cys Ala Trp Leu Phe Gly Thr Met Gly Lys Arg Gln Asn Lys Thr
 1 5 10 15
 Phe Leu Ser Ser Gly Trp Gln Trp Cys Val Leu Ala Leu Ser Gly Ala
 20 25 30
 Ile Arg Val Lys Leu Cys Ser Phe Ser Ser Gln Arg Pro Ala Asn Arg
 35 40 45
 Phe Trp Gly Phe Ala Thr Leu Lys Cys Gly Val Asn Ser Ile Ala Thr
 50 55 60
 Thr Ser Gly Asp Arg Val Lys Tyr Ser Lys Ser Gly Arg Ser Arg Gln
 65 70 75 80
 Leu Tyr Ile Pro Leu Val Phe Leu Tyr Gly Pro Val Cys Leu Gly Lys
 85 90 95
 Lys Ser His Ile Leu Leu Lys Gly Ser Asn Tyr Ser Ala Leu Leu Phe
 100 105 110
 Cys Lys Val Leu Phe Lys Cys Ser Lys Tyr
 115 120

<210> 186
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 186
 Lys Arg Gln Asn Lys Thr Phe Leu Ser Ser Gly Trp Gln Trp Cys Val
 1 5 10 15
 Leu Ala Leu Ser Gly Ala Ile Arg Val
 20 25

<210> 187
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 187
 Leu Lys Cys Gly Val Asn Ser Ile Ala Thr Thr Ser Gly Asp Arg Val
 1 5 10 15
 Lys Tyr Ser Lys Ser Gly Arg
 20

<210> 188
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 188
 Leu Leu Lys Gly Ser Asn Tyr Ser Ala Leu Leu Phe Cys Lys Val Leu

1	5	10	15
---	---	----	----

Phe Lys Cys

<210> 189
 <211> 211
 <212> PRT
 <213> Homo sapiens

<400> 189
 Met Arg Leu Phe Leu Trp Asn Ala Val Leu Thr Leu Phe Val Thr Ser
 1 5 10 15
 Leu Ile Gly Ala Leu Ile Pro Glu Pro Glu Val Lys Ile Glu Val Leu
 20 25 30
 Gln Lys Pro Phe Ile Cys His Arg Lys Thr Lys Gly Gly Asp Leu Met
 35 40 45
 Leu Val His Tyr Glu Gly Tyr Leu Glu Lys Asp Gly Ser Leu Phe His
 50 55 60
 Ser Thr His Lys His Asn Asn Gly Gln Pro Ile Trp Phe Thr Leu Gly
 65 70 75 80
 Ile Leu Glu Ala Leu Lys Gly Trp Asp Gln Gly Leu Lys Gly Met Cys
 85 90 95
 Val Gly Glu Lys Arg Lys Leu Ile Ile Pro Pro Ala Leu Gly Tyr Gly
 100 105 110
 Lys Glu Gly Lys Gly Lys Ile Pro Pro Glu Ser Thr Leu Ile Phe Asn
 115 120 125
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe
 130 135 140
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val
 145 150 155 160
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn
 165 170 175
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp
 180 185 190
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His
 195 200 205
 Asp Glu Leu
 210

<210> 190
 <211> 186
 <212> PRT

<213> Homo sapiens

<400> 190

Glu Val Lys Ile Glu Val Leu Gln Lys Pro Phe Ile Cys His Arg Lys
1 5 10 15

Thr Lys Gly Gly Asp Leu Met Leu Val His Tyr Glu Gly Tyr Leu Glu
20 25 30

Lys Asp Gly Ser Leu Phe His Ser Thr His Lys His Asn Asn Gly Gln
35 40 45

Pro Ile Trp Phe Thr Leu Gly Ile Leu Glu Ala Leu Lys Gly Trp Asp
50 55 60

Gln Gly Leu Lys Gly Met Cys Val Gly Glu Lys Arg Lys Leu Ile Ile
65 70 75 80

Pro Pro Ala Leu Gly Tyr Gly Lys Glu Gly Lys Gly Lys Ile Pro Pro
85 90 95

Glu Ser Thr Leu Ile Phe Asn Ile Asp Leu Leu Glu Ile Arg Asn Gly
100 105 110

Pro Arg Ser His Glu Ser Phe Gln Glu Met Asp Leu Asn Asp Asp Trp
115 120 125

Lys Leu Ser Lys Asp Glu Val Lys Ala Tyr Leu Lys Lys Glu Phe Glu
130 135 140

Lys His Gly Ala Val Val Asn Glu Ser His His Asp Ala Leu Val Glu
145 150 155 160

Asp Ile Phe Asp Lys Glu Asp Lys Asp Gly Phe Ile Ser Ala
165 170 175

Arg Glu Phe Thr Tyr Lys His Asp Glu Leu
180 185

<210> 191

<211> 633

<212> DNA

<213> Homo sapiens

<400> 191

ATGAGGCTTT TCTTGTGGAA CGCGGTCTTG ACTCTGTTCG TCACCTCTTT GATTGGGGCT 60

TTGATCCCTG AAC CAGAAGT GAAAATTGAA GTTCTCCAGA AGCCATTCACT CGGCCATCGC 120

AAGACCAAAG GAGGGGATTT GATGTTGGTC CACTATGAAG GCTACTTAGA AAAGGACGGC 180

TCCTTATTTCA ACTCCACTCA CAAACATAAC AATGGTCAGC CCATTTGGTT TACCCCTGGGC 240

ATCCTGGAGG CTCTCAAAGG TTGGGACCAAG GGCTTGAAAG GAATGTGTGT AGGAGAGAAG 300

AGAAAGCTCA TCATTCCTCC TGCTCTGGC TATGGAAAAG AAGGAAAAGG TAAAATTCCC 360

CCAGAAAGTA CACTGATATT TAATATTGAT CTCCTGGAGA TTTCGAAATGG ACCAAGATCC	420
CATGAATCAT TCCAAGAAAT GGATCTTAAT GATGACTGGA AACTCTCTAA AGATGAGGTT	480
AAAGCATATT TAAAGAAGGA GTTTGAAAAA CATGGTGCAG TGGTGAATGA AAGTCATCAT	540
GATGCTTTGG TGGAGGATAT TTTTGATAAA GAAGATGAAG ACAAAAGATGG GTTTATATCT	600
GCCAGAGAAT TTACATATAA ACACGATGAG TTA	633

<210> 192
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 192
 Ser Arg Gly Thr Phe Arg Cys Phe Cys Arg Asp Phe Phe Pro Cys Phe
 1 5 10 15

Ser Asn

<210> 193
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 193
 Gln Glu Gln Pro Val Gly Thr Ala Ala Val Val Gly Gly Gly Arg Gly
 1 5 10 15

Ser Val Ala Ala Pro Pro Cys Pro Ala
 20 25

<210> 194
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 194
 Gly Asn Val Ala Phe Pro Ala Glu Pro Val Ser Pro Pro Ala Ser Leu
 1 5 10 15

Leu Gln Gln Pro Glu Leu Glu Ser Asp Pro Glu Arg Thr Leu Ala Met
 20 25 30

Asp Ser Ala Leu Ser Asp Pro His Asn Gly Ser Ala Glu Ala Gly Gly
 35 40 45

Pro Thr Asn Ser Thr Thr Arg Pro Pro Ser Thr Pro Glu Gly Ile Ala
 50 55 60

Leu Ala Tyr Gly Ser Leu Leu Leu
 65 70

<210> 195
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 195
 Val Ser Pro Pro Ala Ser Leu Leu Gln Gln Pro Glu Leu Glu Ser Asp
 1 5 10 15
 Pro Glu Arg Thr Leu Ala
 20

<210> 196
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 196
 Gly Ser Ala Glu Ala Gly Gly Pro Thr Asn Ser Thr Thr Arg Pro Pro
 1 5 10 15
 Ser Thr Pro Glu Gly
 20

<210> 197
 <211> 251
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (12)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (17)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 197
 Ala Cys Leu Lys Met Cys Met Met Lys Met Val Xaa Pro Gln Ala Glu
 1 5 10 15
 Xaa Val Gly Cys Lys Ala Gly Val Glu Val Gly Val Gly Ile Leu Leu
 20 25 30
 Gln Ala Asp Val Lys Ala Gln Gln Gly Asn Glu Asp Pro Trp Asn
 35 40 45
 Asp Asp Ile Ser Lys Ser Gln His Gly Lys Val Val Cys Phe Glu Ala
 50 55 60
 Phe Leu Gln Gln Ile Leu Gly Lys His Gln Phe Tyr Trp Cys Leu Glu
 65 70 75 80

Gly Leu Gly His Cys His His His Ile Gly Ala Lys Tyr Pro Glu Asp
 85 90 95

Ile Val Asp Glu Glu Ser Ala Gln Gln Asp Ala Ala Ser Ala Asp Ile
 100 105 110

Val Glu Val Gln Glu Leu Tyr Ser Ile Lys Gly Glu Gly Gln Ala Lys
 115 120 125

Lys Val Val Gly Asn Pro Val Leu Pro Gln Gln Val Pro Asp Ala Asn
 130 135 140

Asp Ala Ala Gln Ala Gln Ala His Gln Val Leu Gly Val Lys Phe Ile
 145 150 155 160

Ile Asp Asp Leu Phe Leu Val Phe Pro Arg Thr Leu Cys Glu Glu Gln
 165 170 175

Leu Val Leu Ser Ile Trp Lys Ala Gly Trp Lys Lys Leu Ile His Glu
 180 185 190

Gly Ala Asp Gly Val Gly Gln Gly Gln Asp Ser Gln His Glu Glu Ile
 195 200 205

His Gly Gln Gln Glu Val Asp Val Leu Leu Gly Glu Tyr Phe Glu Lys
 210 215 220

Glu Val Glu Pro Gln Glu Cys Ala Ala Gly Asp Asp Gly Glu Ala Gly
 225 230 235 240

Gly Ile Pro Ala Gly Asp Cys Phe Arg His Val
 245 250

<210> 198
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 198
 Asp Asp Ile Ser Lys Ser Gln His Gly Lys Val Val Cys Phe Glu Ala
 1 5 10 15

Phe Leu Gln Gln Ile Leu Gly Lys His Gln Phe Tyr
 20 25

<210> 199
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 199
 Gln Phe Tyr Trp Cys Leu Glu Gly Leu Gly His Cys His His His Ile
 1 5 10 15

Gly Ala Lys Tyr Pro Glu Asp Ile Val Asp Glu Glu

20

25

<210> 200
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 200
 Ser Ile Lys Gly Glu Gly Gln Ala Lys Lys Val Val Gly Asn Pro Val
 1 5 10 15
 Leu Pro Gln Gln Val Pro Asp Ala Asn Asp
 20 25

<210> 201
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 201
 Leu Leu Gly Glu Tyr Phe Glu Lys Glu Val Pro Gln Glu Cys Ala
 1 5 10 15
 Ala Gly Asp Asp Gly Glu Ala Gly Gly Ile
 20 25

<210> 202
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 202
 Leu Arg Ser Val Val Gln Asp His Pro Gly Gln His Gly Glu Thr Pro
 1 5 10 15
 Ser Leu Leu Lys Ile Gln
 20

<210> 203
 <211> 93
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (2)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 203

Ile Xaa Xaa Gly Gln Lys Ile Ser Pro Tyr Phe Lys Met Gln Gln Ser
 1 5 10 15

Ile Asn Lys Ile Leu Ala Ile Phe Leu Asn Asp Thr Phe Phe Tyr Asn
 20 25 30

Leu Tyr Arg Lys Leu Ser Ala Arg Ala Arg His Arg Val Thr Pro Val
 35 40 45

Ile Pro Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Pro Glu Val Ser
 50 55 60

Ser Ser Arg Pro Pro Trp Pro Thr Trp Arg Asn Ser Ile Ser Thr Lys
 65 70 75 80

Asn Thr Lys Gln Leu Ala Arg Cys Gly Gly Arg Arg Leu
 85 90

<210> 204

<211> 24

<212> PRT

<213> Homo sapiens

<400> 204

Tyr Phe Lys Met Gln Gln Ser Ile Asn Lys Ile Leu Ala Ile Phe Leu
 1 5 10 15

Asn Asp Thr Phe Phe Tyr Asn Leu
 20

<210> 205

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 205

Met Phe Tyr Asn Phe Val Arg Gln Leu Asp Thr Val Ser Ile Glu His
 1 5 10 15

Ala Gly Lys Ser Lys Leu Lys Met Thr Val Gly Thr Lys Leu Thr Ser
 20 25 30

Gly Xaa Gly Pro Arg Lys Ser Ser Gln Ser Gly Arg Ile Ala Ala Ser
 35 40 45

Ile Thr Asp Cys Gln Gln Cys Lys Ala
 50 55

<210> 206

<211> 46

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 206
 Met Glu Ala Ala Ile Leu Pro Leu Trp Leu Leu Phe Leu Gly Pro Xaa
 1 5 10 15

Pro Glu Val Ser Phe Val Pro Thr Val Ile Phe Asn Leu Asp Phe Pro
 20 25 30

Ala Cys Ser Ile Leu Thr Val Ser Ser Cys Leu Thr Lys Leu
 35 40 45

<210> 207
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 207
 Leu Leu Phe Ile Leu Leu His Leu His Leu Lys Leu Val Leu Asn Cys
 1 5 10 15

Ser Ala Asn Ser Leu Val
 20

<210> 208
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 208
 Asn Ser Ala Arg Ala Ala Arg Ala Thr Phe Ser Val Gln Ser Met Gly
 1 5 10 15

<210> 209
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 209
 Met Leu Glu Arg Asn Leu Pro Gln Gly Arg Ala
 1 5 10

<210> 210
 <211> 97
 <212> PRT

<213> Homo sapiens

<400> 210

Ala Thr Glu Pro Gln Phe Leu Gly Arg Ala Ala Ala Val Ser Ala Glu
 1 5 10 15

Gly Lys Ala Val Gln Thr Ala Ile Leu Gly Gly Ala Met Ser Val Val
 20 25 30

Ser Ala Cys Val Leu Leu Thr Gln Cys Leu Arg Asp Leu Ala Gln Pro
 35 40 45

Arg Arg Gly Ala Lys Met Ser Asp His Arg Glu Arg Leu Arg Asn Ser
 50 55 60

Ala Cys Ala Val Ser Glu Gly Cys Thr Leu Leu Ser Gln Ala Leu Arg
 65 70 75 80

Glu Arg Ser Ser Pro Arg Thr Leu Pro Pro Val Asn Ser Asn Ser Val
 85 90 95

Asn

<210> 211

<211> 30

<212> PRT

<213> Homo sapiens

<400> 211

Leu Gly Gly Ala Met Ser Val Val Ser Ala Cys Val Leu Leu Thr Gln
 1 5 10 15

Cys Leu Arg Asp Leu Ala Gln Pro Arg Arg Gly Ala Lys Met
 20 25 30

<210> 212

<211> 25

<212> PRT

<213> Homo sapiens

<400> 212

Cys Ala Val Ser Glu Gly Cys Thr Leu Leu Ser Gln Ala Leu Arg Glu
 1 5 10 15

Arg Ser Ser Pro Arg Thr Leu Pro Pro
 20 25

<210> 213

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (62)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 213

Gln Phe Ser Thr Pro Lys Arg Thr Val Gly Ala Asn Arg Gln Ala Ile
1 5 10 15Asn Ala Ala Leu Thr Gln Ala Thr Arg Thr Val Tyr Ile Val Asp
20 25 30Ile Gln Asp Ile Asp Ser Ala Ala Arg Ala Arg Pro His Ser Tyr Leu
35 40 45Asp Ala Tyr Phe Val Phe Pro Asn Gly Ser Ala Leu Thr Xaa Asp Glu
50 55 60Leu Ser Val
65

<210> 214

<211> 32

<212> PRT

<213> Homo sapiens

<400> 214

Leu Thr Gln Ala Thr Arg Thr Val Tyr Ile Val Asp Ile Gln Asp
1 5 10 15Ile Asp Ser Ala Ala Arg Ala Arg Pro His Ser Tyr Leu Asp Ala Tyr
20 25 30

<210> 215

<211> 25

<212> PRT

<213> Homo sapiens

<400> 215

Asn His Gly His Ser Cys Phe Leu Cys Glu Ile Val Ile Arg Ser Gln
1 5 10 15Phe His Thr Thr Tyr Glu Pro Glu Ala
20 25

<210> 216

<211> 48

<212> PRT

<213> Homo sapiens

<400> 216

Ser Gly Arg His Arg Val Glu Leu Gln Leu Leu Phe Pro Leu Val Arg
1 5 10 15

Val Asn Phe Glu Leu Gly Val Asn His Gly His Ser Cys Phe Leu Cys
 20 25 30

Glu Ile Val Ile Arg Ser Gln Phe His Thr Thr Tyr Glu Pro Glu Ala
 35 40 45

<210> 217

<211> 13

<212> PRT

<213> Homo sapiens

<400> 217

Lys Phe Leu Asn Trp Ser Ile Ser Asp Ala Phe Val Lys
 1 5 10

<210> 218

<211> 12

<212> PRT

<213> Homo sapiens

<400> 218

Ile Lys Ile Phe Ser Cys Cys Arg Lys Ala Trp Val
 1 5 10

<210> 219

<211> 98

<212> PRT

<213> Homo sapiens

<400> 219

Phe Leu Ser Leu Leu Leu Ala Phe Ser Phe Ser Leu Phe Phe Phe
 1 5 10 15

Phe Asn Arg Lys Cys Thr Met Gln Val His Arg Pro Gln Thr Lys Leu
 20 25 30

Asp His Gln His Val His Val Gln Thr Ser Ala Val Ala Cys Thr Ala
 35 40 45

Cys Ala Pro Gln Phe Leu Gln Cys Trp Phe Val Cys Phe Leu Ile Gln
 50 55 60

His Pro Ala Gly Phe Thr Phe Gln Ala Arg Ser Val Ala Thr Pro Lys
 65 70 75 80

Cys Val Leu Met Ser Ser Ser Leu Phe Ala Phe Leu Leu Thr Tyr Phe
 85 90 95

Val Tyr

<210> 220
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 220
 Val Gln Thr Ser Ala Val Ala Cys Thr Ala Cys Ala Pro Gln Phe Leu
 1 5 10 15
 Gln Cys Trp Phe Val Cys Phe
 20

<210> 221
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 221
 Ser Val Ala Thr Pro Lys Cys Val Leu Met Ser Ser Ser Leu Phe Ala
 1 5 10 15
 Phe Leu Leu

<210> 222
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 222
 Ser Gln His Pro Glu Leu Gln Glu Gly Lys Ile Ser Ser Gln Ile Glu
 1 5 10 15
 Phe Tyr Ile Tyr His Phe Phe Gly Thr Phe Ser Pro Gln Asp Ser Asn
 20 25 30
 Ile

<210> 223
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 223
 Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val
 1 5 10 15
 Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg
 20 25 30
 Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu
 35 40 45
 Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe

50	55	60
Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln		
65	70	75
Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser		
85	90	95
Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile		
100	105	110
Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly		
115	120	125
Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu		
130	135	140
<210> 224		
<211> 23		
<212> PRT		
<213> Homo sapiens		
<400> 224		
Leu Lys Asp Ser Ile Pro Val Thr Glu Leu Ser Ala Ser Gly Pro Phe		
1	5	10
15		
Glu Ser His Asp Leu Leu Arg		
20		
<210> 225		
<211> 21		
<212> PRT		
<213> Homo sapiens		
<400> 225		
Gln Leu Asn Gln Asp Lys Met Asn Phe Ser Thr Leu Arg Asn Ile Gln		
1	5	10
15		
Gly Leu Phe Ala Pro		
20		
<210> 226		
<211> 22		
<212> PRT		
<213> Homo sapiens		
<400> 226		
Gln Gln Val Gln Arg Leu Pro Phe Leu Ser Ser Ser Asn Leu Ser Leu		
1	5	10
15		
Asp Val Leu Arg Gly Asn		
20		
<210> 227		

<211> 38
 <212> PRT
 <213> Homo sapiens

<400> 227
 Glu Phe Gly Thr Arg Ala Ala Pro Gly Ser Leu Gly Ala Arg Gly Ser
 1 5 10 15

Ala Ala Thr Pro Ser Gly Arg Pro Gln Lys Leu Arg Asp Pro Ser Gly
 20 25 30

Thr Ser Gly Gln Pro Arg
 35

<210> 228
 <211> 73
 <212> PRT
 <213> Homo sapiens

<400> 228
 Asn Ser Ala Arg Gly Arg His Gln Gly Ala Trp Ala Pro Gly Ala Pro
 1 5 10 15

Pro Arg Pro His Arg Val Asp His Arg Ser Ser Gly Thr Leu Pro Ala
 20 25 30

Pro Leu Asp Ser Pro Gly Cys Cys Trp Pro Pro Ser Ser Ser Ser
 35 40 45

Leu Glu Ala Leu Trp Pro Ile Gln Thr Gly Leu Phe Phe Gln Ile Met
 50 55 60

Leu Val Arg Thr Pro Gln Gln Cys Ser
 65 70

<210> 229
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 229
 Gln Gly Ala Trp Ala Pro Gly Ala Pro Pro Arg Pro His Arg Val Asp
 1 5 10 15

His Arg Ser Ser Gly Thr Leu Pro Ala
 20 25

<210> 230
 <211> 19
 <212> PRT
 <213> Homo sapiens

<400> 230
 Leu Trp Pro Ile Gln Thr Gly Leu Phe Phe Gln Ile Met Leu Val Arg
 1 5 10 15

Thr Pro Gln

<210> 231
 <211> 35
 <212> PRT
 <213> Homo sapiens

<400> 231
 Thr Met Ser Glu Leu Leu Gly Arg Asn Leu Gly Trp Glu Ala Ser Asp
 1 5 10 15
 Pro Arg Leu His Pro Trp Leu Pro Gln Pro Ala Ala Ser Lys Thr
 20 25 30
 Lys Arg Glu
 35

<210> 232
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 232
 Ile Phe Arg Asn Ala His Ile Ile Val Gly Thr Asp Ser Phe Leu His
 1 5 10 15
 Asp

<210> 233
 <211> 15
 <212> PRT
 <213> Homo sapiens

<400> 233
 Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr Gln Pro Tyr Pro
 1 5 10 15

<210> 234
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 234
 Pro Leu Leu Gly Val Ser Ala Thr Leu Asn Ser Val Leu Asn Ser Asn
 1 5 10 15
 Ala Ile Lys Asn
 20

<210> 235

<211> 14
 <212> PRT
 <213> Homo sapiens

<400> 235
 Gly Ser Ala Val Ser Ala Ala Pro Gly Ile Leu Tyr Pro Gly
 1 5 10

<210> 236
 <211> 280
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (137)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (138)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 236
 Arg Ser Phe Ser Leu Ser Phe Ser Leu Leu Ser Pro Ser Glu Met Met
 1 5 10 15

Ala Leu Gly Ala Ala Gly Ala Thr Arg Val Phe Val Ala Met Val Ala
 20 25 30

Ala Ala Leu Gly Gly His Pro Leu Leu Gly Val Ser Ala Thr Leu Asn
 35 40 45

Ser Val Leu Asn Ser Asn Ala Ile Lys Asn Leu Pro Pro Pro Leu Gly
 50 55 60

Gly Ala Ala Gly His Pro Gly Ser Ala Val Ser Ala Ala Pro Gly Ile
 65 70 75 80

Leu Tyr Pro Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr Gln Pro
 85 90 95

Tyr Pro Cys Ala Glu Asp Glu Glu Cys Gly Thr Asp Glu Tyr Cys Ala
 100 105 110

Ser Pro Thr Arg Gly Gly Asp Ala Gly Val Gln Ile Cys Leu Ala Cys
 115 120 125

Arg Lys Arg Arg Lys Arg Cys Met Xaa Xaa Ala Met Cys Cys Pro Gly
 130 135 140

Asn Tyr Cys Lys Asn Gly Ile Cys Val Ser Ser Asp Gln Asn His Phe
 145 150 155 160

Arg Gly Glu Ile Glu Glu Thr Ile Thr Glu Ser Phe Gly Asn Asp His
 165 170 175

Ser Thr Leu Asp Gly Tyr Ser Arg Arg Thr Thr Leu Ser Ser Lys Met
 180 185 190

Tyr His Thr Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser Ser Asp
 195 200 205

Cys Ala Ser Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys Ile Cys
 210 215 220

Lys Pro Val Leu Lys Glu Gly Gln Val Cys Thr Lys His Arg Arg Lys
 225 230 235 240

Gly Ser His Gly Leu Glu Ile Phe Gln Arg Cys Tyr Cys Gly Glu Gly
 245 250 255

Leu Ser Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn Ser Ser
 260 265 270

Arg Leu His Thr Cys Gln Arg His
 275 280

<210> 237

<211> 8

<212> PRT

<213> Homo sapiens

<400> 237

Ser Ala Thr Leu Asn Ser Val Leu
 1 5

<210> 238

<211> 7

<212> PRT

<213> Homo sapiens

<400> 238

Asn Ser Asn Ala Ile Lys Asn
 1 5

<210> 239

<211> 7

<212> PRT

<213> Homo sapiens

<400> 239

Gly Gly Asn Lys Tyr Gln Thr
 1 5

<210> 240

<211> 15

<212> PRT

<213> Homo sapiens

<400> 240

Asp Asn Tyr Gln Pro Tyr Pro Cys Ala Glu Asp Glu Glu Cys Gly
 1 5 10 15

<210> 241
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 241
 Gly Val Gln Ile Cys Leu
 1 5

<210> 242
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 242
 Pro Gly Asn Tyr Cys Lys Asn Gly Ile Cys
 1 5 10

<210> 243
 <211> 6
 <212> PRT
 <213> Homo sapiens

<400> 243
 Arg Gly Glu Ile Glu Glu
 1 5

<210> 244
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 244
 Tyr His Thr Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser Ser Asp
 1 5 10 15
 Cys Ala

<210> 245
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 245
 Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys Ile Cys Lys Pro Val
 1 5 10 15
 Leu Lys Glu Gly Gln Val Cys Thr Lys His
 20 25

<210> 246
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 246
 Arg Lys Gly Ser His Gly Leu Glu Ile Phe
 1 5 10

<210> 247
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 247
 Gln Arg Cys Tyr Cys Gly Glu Gly Leu
 1 5

<210> 248
 <211> 22
 <212> PRT
 <213> Homo sapiens

<400> 248
 Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn Ser Ser Arg Leu
 1 5 10 15
 His Thr Cys Gln Arg His
 20

<210> 249
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 249
 Glu Gly Leu Cys Glu Gly Ala Val Gly Trp Asn Gly Gly Trp His Gly
 1 5 10 15
 Thr Gly Thr Arg Glu Ala Ser Ser Pro Phe Ser Ala Thr Ser Lys Arg
 20 25 30
 His Ser Ala Leu Pro Glu
 35

<210> 250
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 250
 Ser Trp Ser Leu Met Phe Ile Leu Lys Leu Ala Ser Leu Phe Arg Leu

1 5 10 15

Leu Ile Gln Pro Leu Ala Phe Ser Phe Asn Leu Gly Gln Lys Asn Arg
20 25 30

Gln His Phe Leu Pro Pro Leu Pro His His His Pro Ile Tyr Ser Phe
35 40 45

Ser Leu Tyr Tyr His Asn Ser Pro Lys Arg Pro Lys Ser Ile Ile Lys
50 55 60

Ser Asn Asn Leu Ala Ser Asn Leu Asn Pro Ser Ile
65 70 75

<210> 251

<211> 21

<212> PRT

<213> Homo sapiens

<400> 251

Lys Leu Ala Ser Leu Phe Arg Leu Leu Ile Gln Pro Leu Ala Phe Ser
1 5 10 15

Phe Asn Leu Gly Gln
20

<210> 252

<211> 20

<212> PRT

<213> Homo sapiens

<400> 252

Ser Phe Ser Leu Tyr Tyr His Asn Ser Pro Lys Arg Pro Lys Ser Ile
1 5 10 15

Ile Lys Ser Asn
20

<210> 253

<211> 18

<212> PRT

<213> Homo sapiens

<400> 253

Lys Pro Pro Pro Pro Thr Pro Pro Phe Ala Tyr Thr Thr Pro Leu Leu
1 5 10 15

Leu Ser

<210> 254

<211> 63

<212> PRT

<213> Homo sapiens

<220>
 <221> SITE
 <222> (41)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (46)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 254
 Met Leu Ala Cys Arg Arg Leu Pro Met Ser Gln Asn Pro Leu Ser Met
 1 5 10 15
 Leu Thr Leu Asp Thr Pro Leu Lys Pro Leu Ile Val Cys Ala Ser Gly
 20 25 30
 Cys Glu Val Pro Ala Pro Cys Gly Xaa Cys Ala Cys Thr Xaa Pro Ala
 35 40 45
 Leu Gln Phe Leu Cys Thr Tyr Ser Ser Ala Val Leu Lys Cys
 50 55 60

<210> 255
 <211> 30
 <212> PRT
 <213> Homo sapiens
 <400> 255
 Leu Pro Met Ser Gln Asn Pro Leu Ser Met Leu Thr Leu Asp Thr Pro
 1 5 10 15
 Leu Lys Pro Leu Ile Val Cys Ala Ser Gly Cys Glu Val Pro
 20 25 30

<210> 256
 <211> 13
 <212> PRT
 <213> Homo sapiens
 <400> 256
 Ala Phe Gly Asp Thr Asp Ile Arg Gln Leu Phe Phe Ala
 1 5 10

<210> 257
 <211> 45
 <212> PRT
 <213> Homo sapiens
 <400> 257
 Arg Gly Ile Ser Val Leu Arg Arg Val Trp Gly Gln Pro Trp Arg Leu
 1 5 10 15
 Gln Val Phe Ser Leu Pro Gln Gln Ser Pro Ala Gly Ala Pro Thr Gly

20

25

30

Ser Gln Arg Gly Met Ala Ala Thr Asp Phe Val Gln Glu
 35 40 45

<210> 258

<211> 23

<212> PRT

<213> Homo sapiens

<400> 258

Pro Glu Glu Ala Ser Phe Ala Cys Glu Gly Cys Gly Pro Pro Leu Pro
 1 5 10 15

Trp Ala Cys Ser Pro Gly Trp
 20

<210> 259

<211> 108

<212> PRT

<213> Homo sapiens

<400> 259

Lys Tyr Met Leu Tyr Arg Pro Gln Ala Ala Leu Asp Leu Val Ser Asp
 1 5 10 15

Thr Ser Asp Gln Lys Lys Pro Val Leu Arg Val Arg Gly Val Gly Pro
 20 25 30

Arg Cys Leu Gly Pro Ala His Arg Gly Gly Trp Thr Pro Ala Gly Ser
 35 40 45

Gln Pro Ala Val Thr Ser Gly Leu Leu Ala Ser Ser Ala Ser Gly Leu
 50 55 60

Leu Gly Ser Pro Ala Leu Cys Pro Ser Val Thr Ser Leu Ser Gly Cys
 65 70 75 80

Pro Val Leu Ala Ala Leu Ser Phe Val Arg Ile Thr Pro Ser Phe Phe
 85 90 95

Phe Ser Pro Asn Thr Ser Ser Pro Ile Ile Leu Arg
 100 105

<210> 260

<211> 28

<212> PRT

<213> Homo sapiens

<400> 260

Asp Gln Lys Lys Pro Val Leu Arg Val Arg Gly Val Gly Pro Arg Cys
 1 5 10 15

Leu Gly Pro Ala His Arg Gly Gly Trp Thr Pro Ala
 20 25

<210> 261
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 261
 Gln Pro Ala Val Thr Ser Gly Leu Leu Ala Ser Ser Ala Ser Gly Leu
 1 5 10 15
 Leu Gly Ser Pro Ala Leu Cys Pro Ser Val Thr Ser
 20 25

<210> 262
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 262
 Gln Arg Ile Ile Thr Val Ser Met Glu Asp Val Lys Ile Leu Leu Thr
 1 5 10 15
 Gln Glu Asn Pro Phe Phe Arg Lys Leu Ser Ser Glu Thr Tyr Ser Gln
 20 25 30
 Ala Lys Asp Leu Ala Lys Gly Ser Ile Val Leu Lys Tyr Glu Pro Asp
 35 40 45
 Ser Ala Asn Pro Asp Ala Leu Gln Cys Pro Ile Val Leu Cys Gly Trp
 50 55 60
 Arg Gly Lys Ala Ser Ile Arg Thr Phe Val Pro Lys Asn Glu Arg Leu
 65 70 75 80
 His Tyr Leu Arg Met Met Gly Leu Glu Val Leu Gly Glu Lys Lys Lys
 85 90 95
 Glu Gly Val Ile Leu Thr Asn Glu Ser Ala Ala Ser Thr Gly Gln Pro
 100 105 110
 Asp Asn Asp Val Thr Glu Gly Gln Arg Ala Gly Glu Pro Asn Ser Pro
 115 120 125
 Asp Ala Glu Glu Ala Asn Ser Pro Asp Val Thr Ala Gly Cys Asp Pro
 130 135 140
 Ala Gly Val His Pro Pro Arg
 145 150

<210> 263
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 263

Asp Val Lys Ile Leu Leu Thr Gln Glu Asn Pro Phe Phe Arg Lys Leu
 1 5 10 15

Ser Ser Glu Thr Tyr Ser Gln Ala Lys
 20 25

<210> 264

<211> 28

<212> PRT

<213> Homo sapiens

<400> 264

Ala Lys Gly Ser Ile Val Leu Lys Tyr Glu Pro Asp Ser Ala Asn Pro
 1 5 10 15

Asp Ala Leu Gln Cys Pro Ile Val Leu Cys Gly Trp
 20 25

<210> 265

<211> 28

<212> PRT

<213> Homo sapiens

<400> 265

Leu His Tyr Leu Arg Met Met Gly Leu Glu Val Leu Gly Glu Lys Lys
 1 5 10 15

Lys Glu Gly Val Ile Leu Thr Asn Glu Ser Ala Ala
 20 25

<210> 266

<211> 25

<212> PRT

<213> Homo sapiens

<400> 266

Ala Gly Glu Pro Asn Ser Pro Asp Ala Glu Glu Ala Asn Ser Pro Asp
 1 5 10 15

Val Thr Ala Gly Cys Asp Pro Ala Gly
 20 25

<210> 267

<211> 14

<212> PRT

<213> Homo sapiens

<400> 267

Ile Leu Phe Ala Ala Ser Lys Gly Asp Asp Phe Gln Ala Asp
 1 5 10

<210> 268

<211> 14

<212> PRT

<213> Homo sapiens

<400> 268

Ile Leu Phe Ala Ala Ser Lys Gly Asp Asp Phe Gln Ala Asp
1 5 10

<210> 269

<211> 18

<212> PRT

<213> Homo sapiens

<400> 269

Leu Tyr Ala Gln Lys Leu Gly Ala Thr Cys Phe Cys Thr Asp Cys Arg
1 5 10 15

Ser Lys

<210> 270

<211> 81

<212> PRT

<213> Homo sapiens

<400> 270

Ala Gly Ile Gln His Glu Leu Ala Cys Asp Asn Pro Gly Leu Pro Glu
1 5 10 15Asn Gly Tyr Gln Ile Leu Tyr Lys Arg Leu Tyr Leu Pro Gly Glu Ser
20 25 30Leu Thr Phe Met Cys Tyr Glu Gly Phe Glu Leu Met Gly Glu Val Thr
35 40 45Ile Arg Cys Ile Leu Gly Gln Pro Ser His Trp Asn Gly Pro Leu Pro
50 55 60Val Cys Lys Val Ala Glu Ala Ala Glu Thr Ser Leu Glu Gly Gly
65 70 75 80

Asn

<210> 271

<211> 27

<212> PRT

<213> Homo sapiens

<400> 271

Gln Pro Ser His Trp Asn Gly Pro Leu Pro Val Cys Lys Val Ala Glu
1 5 10 15Ala Ala Ala Glu Thr Ser Leu Glu Gly Gly Asn
20 25

<210> 272
 <211> 13
 <212> PRT
 <213> Homo sapiens

<400> 272
 Tyr Glu Thr Gly Glu Thr Arg Glu Tyr Glu Val Ser Ile
 1 5 10

<210> 273
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 273
 Trp Val Glu Lys Gly Glu Arg Gly Val Gly Pro Asp Thr Lys Glu Met
 1 5 10 15

Phe Ser Ala Ile Asn Gln Leu Gln Asn Lys
 20 25

<210> 274
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 274
 Gly Thr Ser Pro Lys Cys Trp Asp Tyr Arg Glu Leu Met Lys Val Glu
 1 5 10 15

<210> 275
 <211> 52
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (47)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 275
 His Glu Pro Lys Val Leu Gly Leu Gln Gly Val Asp Glu Ser Gly Asp
 1 5 10 15

Val Phe Arg Ala Thr Tyr Ala Ala Phe Arg Cys Ser Pro Ile Ser Gly
 20 25 30

Leu Leu Glu Ser His Gly Ile Gln Lys Val Ser Ile Thr Phe Xaa Pro
 35 40 45

Arg Gly Arg Gly

50

<210> 276
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (3)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 276
 Asp Tyr Xaa Gln Phe Trp Asp Val Glu Cys His Pro Leu Lys Glu Pro
 1 5 10 15

His Met Lys His Thr Leu Arg Phe Gln Leu Ser Gly Gln Ser Ile Glu
 20 25 30

Ala Glu Asn Glu Pro Glu Asn Ala Cys Leu Ser Thr Asp Ser Leu Ile
 35 40 45

Lys Ile Asp
 50

<210> 277
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (20)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 277
 His Leu Val Lys Pro Arg Arg Gln Ala Val Ser Glu Ala Ser Ala Arg
 1 5 10 15

Ile Pro Asp Xaa Gln Leu Asp Val Thr Ala Arg Gly Val Tyr Ala Pro
 20 25 30

Glu Asp Val Tyr Arg Phe Leu Pro Thr Ser Val Gly Glu Ser Arg Thr
 35 40 45

Leu Lys Val
 50

<210> 278
 <211> 34
 <212> PRT
 <213> Homo sapiens

<400> 278
 Asn Leu Arg Asn Asn Ser Phe Ile Thr His Ser Leu Lys Phe Leu Ser

1 5 10 15

Pro Arg Glu Pro Phe Tyr Val Lys His Ser Lys Tyr Ser Leu Arg Ala
20 25 30

Gln His

<210> 279

<211> 47

<212> PRT

<213> Homo sapiens

<400> 279

Glu Asn Leu Ser Thr Ser Cys Val Ser Cys Gln Val Val Phe Val Thr
1 5 10 15

Ser Glu Pro Ala Leu Thr Leu Pro Thr Tyr His Val Met Leu Ile Ser
20 25 30

Pro Thr Val Pro Cys Cys Ile Gly Ser Ala Leu Arg Ala Glu Ile
35 40 45

<210> 280

<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (40)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (161)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 280

Asp Asp Asp Gly Leu Pro Phe Pro Thr Asp Val Ile Gln His Arg Leu
1 5 10 15

Arg Gln Ile Glu Ala Gly Tyr Lys Gln Glu Val Glu Gln Leu Arg Arg
20 25 30

Gln Val Arg Asp Ser Asp Glu Xaa Gly His Pro Ser Leu Leu Cys Pro
35 40 45

Ser Ser Arg Ala Pro Met Asp Tyr Glu Asp Asp Phe Thr Cys Leu Lys
50 55 60

Glu Ser Asp Gly Ser Asp Thr Glu Asp Phe Gly Ser Asp His Ser Glu
65 70 75 80

Asp Cys Leu Ser Glu Ala Ser Trp Glu Pro Val Asp Lys Lys Glu Thr
85 90 95

Glu Val Thr Arg Trp Val Pro Asp His Met Ala Ser His Cys Tyr Asn
 100 105 110

Cys Asp Cys Glu Phe Trp Leu Ala Lys Arg Arg His His Cys Arg Asn
 115 120 125

Cys Gly Asn Val Phe Cys Ala Gly Cys Cys His Leu Lys Leu Pro Ile
 130 135 140

Pro Asp Gln Gln Leu Tyr Asp Pro Val Leu Val Cys Asn Ser Cys Tyr
 145 150 155 160

Xaa Thr His Ser Ser Leu Ser Cys Gln Gly Thr His Glu Pro Thr Ala
 165 170 175

Glu Glu Thr His Cys Tyr Ser Phe Gln Leu Asn Ala Gly Glu Lys Pro
 180 185 190

Val Gln Phe
 195

<210> 281

<211> 28

<212> PRT

<213> Homo sapiens

<400> 281

Ser Glu Ala Ser Trp Glu Pro Val Asp Lys Lys Glu Thr Glu Val Thr
 1 5 10 15

Arg Trp Val Pro Asp His Met Ala Ser His Cys Tyr
 20 25

<210> 282

<211> 10

<212> PRT

<213> Homo sapiens

<400> 282

His His Cys Arg Asn Cys Gly Asn Val Phe
 1 5 10

<210> 283

<211> 14

<212> PRT

<213> Homo sapiens

<400> 283

Arg Leu Arg Gln Ile Glu Ala Gly Tyr Lys Gln Glu Val Glu
 1 5 10

<210> 284

<211> 40

<212> PRT
 <213> Homo sapiens

<220>
 <221> SITE
 <222> (8)
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>
 <221> SITE
 <222> (16)
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 284
 Val Asn Lys Ser Asn Gly Arg Xaa His Gly Arg Arg Ala Tyr Arg Xaa
 1 5 10 15

Ser Leu Ser Ile Ala Phe Pro Arg Lys Pro Gln Phe Arg His Arg Ser
 20 25 30

Pro Glu Val Ser Pro Ser Asp Leu
 35 40

<210> 285
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 285
 Ser Pro Ile Pro Ser Glu Glu Val Lys Glu Ile Pro His Arg Tyr Arg
 1 5 10 15

Gly Ser Arg Cys Pro Arg Thr Ser Asn Ser Arg Phe Gly Pro Arg Arg
 20 25 30

Leu Ala Pro Thr Ser Thr Thr
 35

<210> 286
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 286
 Ser Pro Ile Pro Ser Glu Glu Val Lys Glu Ile Pro His Arg Tyr Arg
 1 5 10 15

Gly Ser Arg Cys Pro Arg Thr Ser Asn Ser Arg Phe Gly Pro Arg Arg
 20 25 30

Leu Ala Pro Thr Ser Thr Thr
 35

<210> 287
 <211> 14

<212> PRT

<213> Homo sapiens

<400> 287

Trp Gln Glu Ala Glu Met Asp Met Ala Trp Gln Lys Ser Ile
1 5 10

<210> 288

<211> 20

<212> PRT

<213> Homo sapiens

<400> 288

Met Ala Ser Ser Asp Glu His Ser Ser Ile Leu Gln Gly Leu Leu Ser
1 5 10 15

His His Ser Leu

20

<210> 289

<211> 44

<212> PRT

<213> Homo sapiens

<400> 289

Lys Arg Gln Pro Thr Ser Ala Met Lys Asp Pro Ser Arg Ser Ser Thr
1 5 10 15Ser Pro Ser Ile Ile Asn Glu Asp Val Ile Ile Asn Gly His Ser His
20 25 30

Glu Asp Asp Asn Pro Phe Ala Glu Tyr Met Trp Met

35 40

<210> 290

<211> 45

<212> PRT

<213> Homo sapiens

<400> 290

Glu Asn Glu Glu Glu Phe Asn Arg Gln Ile Glu Glu Glu Leu Trp Glu
1 5 10 15Glu Glu Phe Ile Glu Arg Cys Phe Gln Glu Met Leu Glu Glu Glu
20 25 30

Glu His Glu Trp Phe Ile Pro Ala Arg Asp Leu Pro Gln

35 40 45

<210> 291

<211> 45

<212> PRT

<213> Homo sapiens

<400> 291

Thr	Met	Asp	Gln	Ile	Gln	Asp	Gln	Phe	Asn	Asp	Leu	Val	Ile	Ser	Asp
1				5					10					15	

Gly	Ser	Ser	Leu	Glu	Asp	Leu	Val	Val	Lys	Ser	Asn	Leu	Asn	Pro	Asn
								25					30		

Ala	Lys	Glu	Phe	Val	Pro	Gly	Val	Lys	Tyr	Gly	Asn	Ile			
								35			40		45		

<210> 292

<211> 87

<212> PRT

<213> Homo sapiens

<400> 292

Met	Ser	His	Cys	Ala	Arg	Pro	Leu	Phe	Phe	Glu	Thr	Phe	Phe	Ile	Leu
1									10					15	

Leu	Ser	Pro	Arg	Leu	Lys	Cys	Ser	Gly	Thr	Asn	Thr	Val	His	Tyr	Ser
								20			25		30		

Leu	Asp	Leu	Leu	Gly	Ser	Ser	Asn	Ser	Ala	Ser	Val	Pro	Gln	Val	Gly
								35			40		45		

Gly	Leu	Thr	Asn	Ala	Gln	His	Asp	Thr	Trp	Leu	Ile	Phe	Val	Phe	Cys
								50			55		60		

Val	Cys	Val	Cys	Glu	Pro	Leu	Arg	Arg	Pro	Trp	Ala	Ala	Phe	Leu	Ile
65									75				80		

Ser	Val	Thr	Ser	Ser	Ile	Lys									
						85									

<210> 293

<211> 30

<212> PRT

<213> Homo sapiens

<400> 293

Val	Pro	Gln	Val	Gly	Gly	Leu	Thr	Asn	Ala	Gln	His	Asp	Thr	Trp	Leu
1								10					15		

Ile	Phe	Val	Phe	Cys	Val	Cys	Val	Cys	Glu	Pro	Leu	Arg	Arg		
								20			25		30		

<210> 294

<211> 16

<212> PRT

<213> Homo sapiens

<400> 294

Pro	Arg	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Arg	Ile	Thr	Gly
1								5					10		15